					ENT OF N	OF UTAH ATURAL RESO , GAS AND M		;			AMENDED RE	FORM 3 PORT	
		APPL	ICATION FOR	PERMIT TO DRIL	L				1. WELL N	IAME and NU	MBER IBU 1022-9E40	:s	
2. TYPE OF		RILL NEW WELL (REENTER P8	A WELL DEEP	PEN WELL (3. FIELD (OR WILDCAT	IATURAL BUTTE	S	
4. TYPE OF		Gas V		ped Methane Well: NO	,				5. UNIT o		IZATION AGRE		AME
6. NAME OF	OPERATOR			GAS ONSHORE, L.P.					7. OPERA	TOR PHONE	720 929-6507		
8. ADDRESS	OF OPERATOR								9. OPERA	TOR E-MAIL			
	L LEASE NUMBER	1	J. BOX 173779, L	enver, CO, 80217	ERSHIP				12. SURFA	MIKE.MCC	onaughey@ana HIP	idarko.com	l
		Ó1196-B		FEDERAL (III)	INDIAN 🬘) STATE () FEE		FEDERA	<u> </u>		ATE 💭	FEE
13. NAME C	OF SURFACE OWN	NER (if box 12 = 'fe	ee')						14. SURF	ACE OWNER	PHONE (if box	12 = 'fee')
15. ADDRES	SS OF SURFACE (OWNER (if box 12	= 'fee')						16. SURF	ACE OWNER	E-MAIL (if bo	(12 = 'fee'	')
17. INDIAN . (if box 12 =	ALLOTTEE OR TR	IBE NAME		18. INTEND TO CO		PRODUCTION	N FROM		19. SLAN	Т			
(11 DOX 12 -	. INDIAN J			YES (Subm	nit Commin	ngling Applicati	on) NO		VERTICA	AL DIR	ECTIONAL 📵	HORIZO	NTAL 🔵
20. LOCAT	ION OF WELL		FC	OOTAGES	Q	TR-QTR	SEC	CTION	тои	VNSHIP	RANGE		MERIDIAN
LOCATION	AT SURFACE		2080 F	SL 1378 FWL		NESW		9	10	0.0 S	22.0 E		S
Top of Up	permost Producir	ng Zone	2555 F	NL 672 FWL		SWNW		9	10	0.0 S	22.0 E		S
At Total D	epth		2555 F	NL 672 FWL		SWNW		9	10	0.0 S	22.0 E		S
21. COUNT		NTAH		22. DISTANCE TO I		LEASE LINE (F 672	eet)		23. NUMB	ER OF ACRE	S IN DRILLING 320	UNIT	
				25. DISTANCE TO I (Applied For Drilli	ng or Com		POOL		26. PROP	OSED DEPTH MD: 1	10122 TVD:	10004	
27. ELEVAT	ION - GROUND L	EVEL		28. BOND NUMBER	2						ING WATER /	IF APPLICA	ABLE
	:	5152				3000291					43-8496		
String	Hole Size	Casing Size	Langet	-		Cement Info		Max Mu	1 10/4	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 230			J-55 LT&C	-	0.2		Type V	180	1.15	15.8
		0.020	0 200	20.0		0 00 2100	-	0.2		Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 101	22 11.6	НС	P-110 LT&C		12.	5	Class G	780	3.38	12.0
										Class G	1430	1.31	14.3
					ATTAC	HMENTS							
	VERIFY	THE FOLLOWI	NG ARE ATTA	CHED IN ACCORE	ANCE W	ITH THE UT	AH OIL A	AND GAS	CONSER	VATION GE	NERAL RUL	ES	
W EL	LL PLAT OR MAP F	PREPARED BY LICE	ENSED SURVEYO	OR OR ENGINEER		№ сом	PLETE DE	RILLING PL	.AN				
AFFI	DAVIT OF STATUS	OF SURFACE OW	NER AGREEMEN	IT (IF FEE SURFACE)	ı	FORM	/ 5. IF OP	ERATOR IS	OTHER T	HAN THE LE	ASE OWNER		
✓ DIRE	ECTIONAL SURVE	Y PLAN (IF DIREC	TIONALLY OR H	ORIZONTALLY DRILI	_ED)	№ торо	GRAPHIC	CAL MAP					
NAME Joel	Malefyt			TITLE Regualtory A	Analyst			PHONE	720 929-6	6828			
SIGNATUR	E			DATE 12/21/2015	i			EMAIL jo	oel.malefyt	@anadarko.c	om		
	er assigned 4755520000	00		APPROVAL				B	00kg				
								Perm	nit Mana	nger			

NBU 1022-9K Pad Drilling Program
1 of 6

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-9E4CS

Surface: 2080 FSL / 1378 FWL NESW BHL: 2555 FNL / 672 FWL NWSW

Section 9 T10S R22E

Unitah County, Utah Mineral Lease: UTU-01196B

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2.a <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,123'	
Birds Nest	1,439'	Water
Mahogany	1,914'	Water
Wasatch	4,280'	Gas
Mesaverde	6,773'	Gas
Sego	8,866'	Gas
Castlegate	8,953'	Gas
Blackhawk	9,404'	Gas
TVD =	10,004'	
TD =	10,122'	

2.b Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. Pressure Control Equipment

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

NBU 1022-9K Pad Drilling Program 2 of 6

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. <u>Evaluation Program</u>:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. <u>Abnormal Conditions</u>:

7.a Blackhawk (Part of Mesaverde Group)

Maximum anticipated bottom hole pressure calculated at 10004' TVD, approximately equals 6,403 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,188 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasatch Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 8866' TVD, approximately equals 5,408 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,481 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

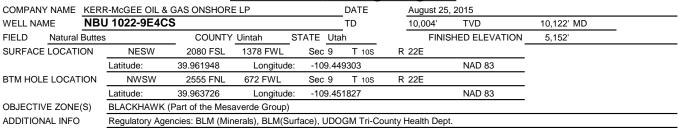
10. Other Information:

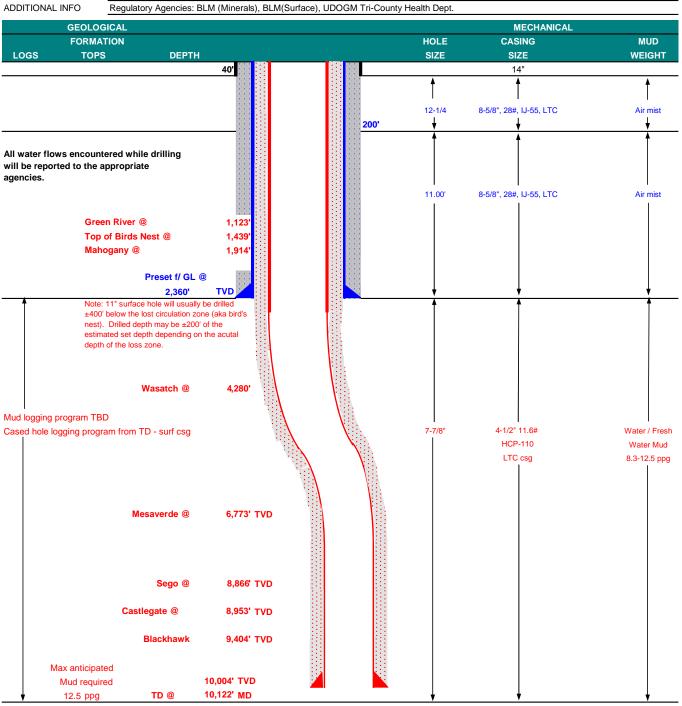
Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

NBU 1022-9K Pad Drilling Program
3 of 6



KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program





NBU 1022-9K Pad **Drilling Program** 4 of 6



KERR-McGEE OIL & GAS ONSHORE LP

Blackhawk Drilling Program

DESIGN FACTORS CASING PROGRAM LTC DQX CPLG **BURST** COLLAPSE TENSION SIZE INTERVAL WT. GR. CONDUCTOR 0-40' 14" 3,390 1,880 348,000 N/A SURFACE 8-5/8" to 2,360 28.00 IJ-55 LTC 2.28 1.70 6.01 N/A **PRODUCTION** 10,690 279,000 HCP-110 2.40 4-1/2" 10,122 1.19

Surface Casing:

12.5 0.73 psi/ft = frac gradient @ surface shoe (Burst Assumptions: TD = ppg)

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 nsi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to	surface, opti	on 2 will be	utilized	
Option 2 LEAD	1,860'	Premium cmt + 16% Gel + 10 pps gilsonite	280	35%	12.00	2.86
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
TAIL	500'	Premium cmt + 2% CaCl	170	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,772'	13.5ppg yield 1.29, 65:35 Poz:G	780	35%	13.50	1.29
		+ .3% Dispersant + .1% Extender				
		+ .05% High-Temp Retarder				
TAIL	6,350'	14.5ppg yield 1.37, 50:50 Poz:G	1,430	35%	14.50	1.37
		+ 35% BWOC Silica + .2% Extender				
		+ .3% FLAC + .3% High-Temp Retarder				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

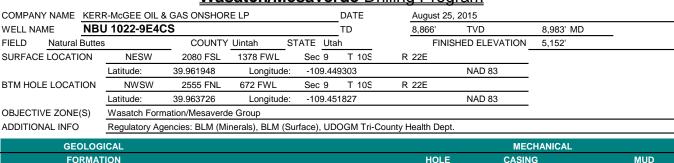
	ir extreme mud losses are observer	d OR cement doesn't reach surface on a well on the pad, a DV Tool may l	be used. With Cement Baske	s above and below it.
DRILLING	ENGINEER:		DATE:	
		Zach Haynes/Eric Giles		
DRILLING	SUPERINTENDENT:		DATE:	
		Lovel Young		

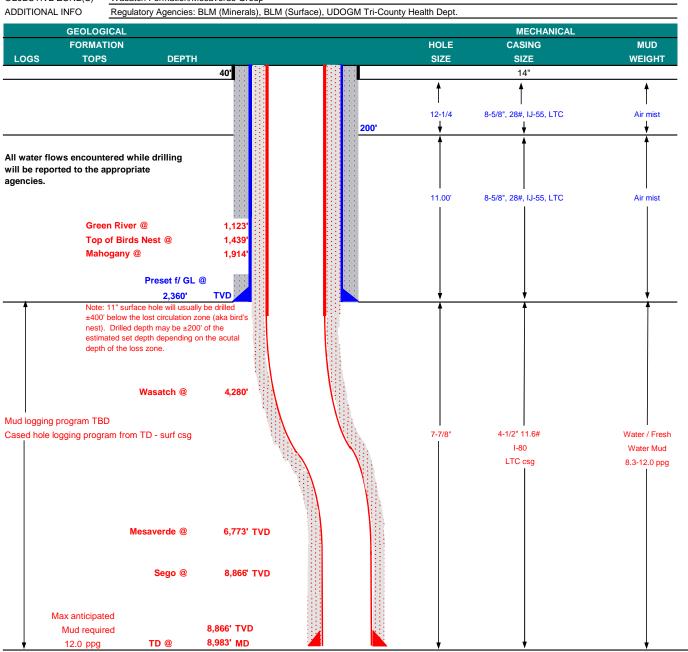
^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

NBU 1022-9K Pad Drilling Program 5 of 6



KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program





NBU 1022-9K Pad Drilling Program 6 of 6



KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program

CASING PROGRAM	<u>M</u>								DESIGN I	FACTORS	
										LTC	DQX
	SIZE	INT	ERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TE	NSION
CONDUCTOR	14"	()-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,360	28.00	IJ-55	LTC	2.28	1.70	6.01	N/A
PRODUCTION											
								7,780	6,350	223,000	
	4-1/2"	0	to	8,983'	11.60	I-80	LTC	0.86	1.15	2.20	

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.61 psi/ft = bottomhole gradient (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to s	urface, optio	n 2 will be u	tilized	•
Option 2 LEAD	1,860'	Premium cmt + 16% Gel + 10 pps gilsonite	280	35%	12.00	2.86
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,773'	12.5ppg yield 1.45, 75:25 Poz:G	690	35%	12.50	1.45
		+ .2% Dispersant + .5% Extender				
		+ .43% Mid-Temp Retarder				
TAIL	5,210'	14.5ppg yield 1.34, 50:50 Poz:G	1,200	35%	14.50	1.34
		+ 35% BWOC Silica + .3% FLAC				
		+ .17% Mid Temp Retarder				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

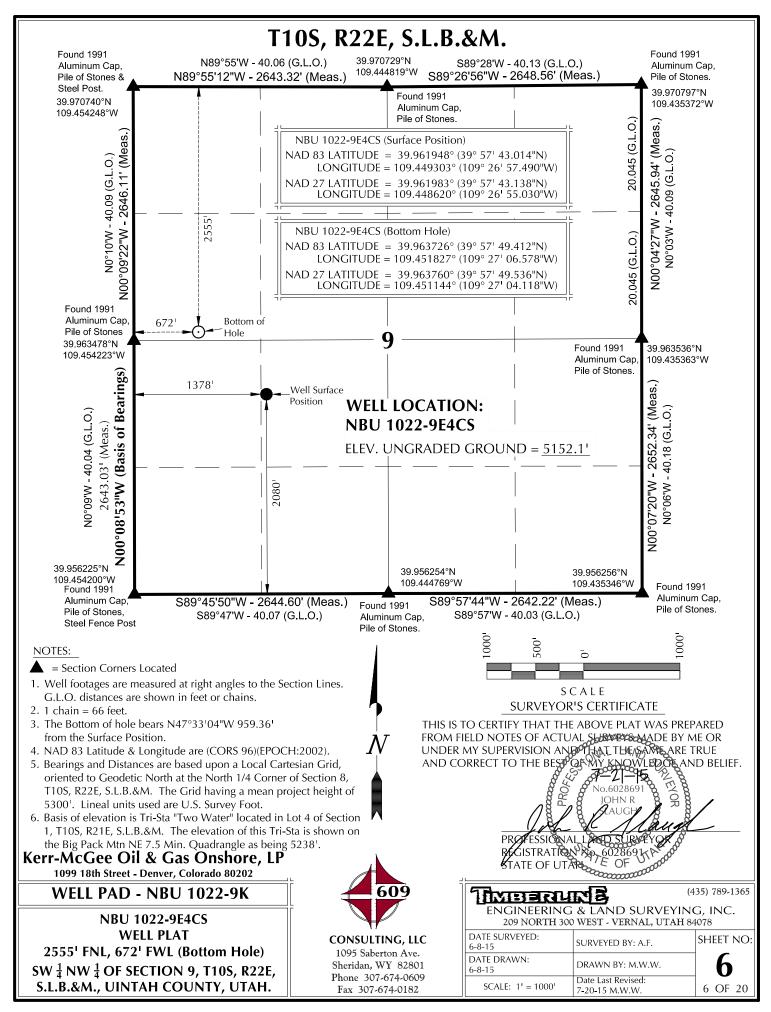
Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

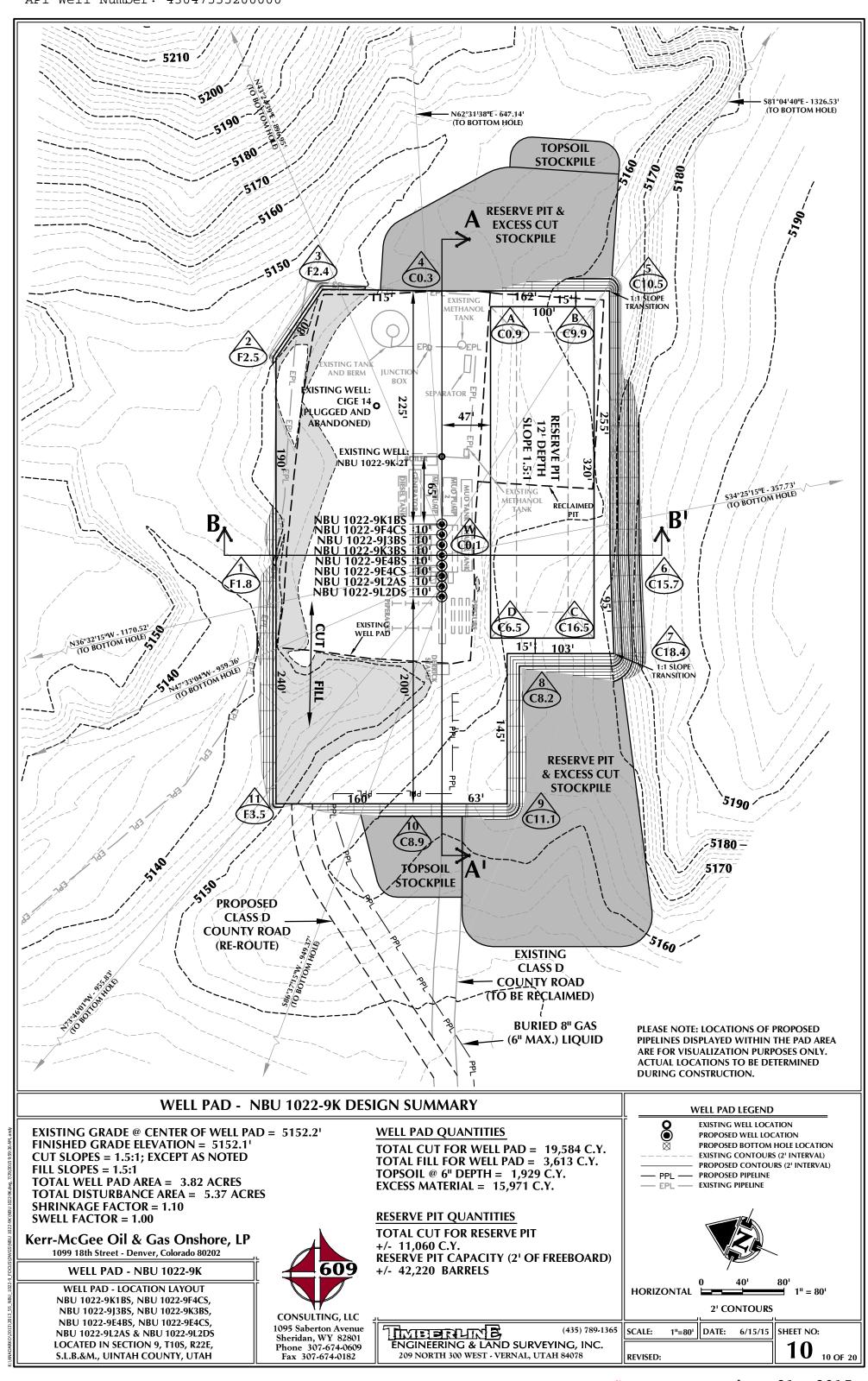
IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

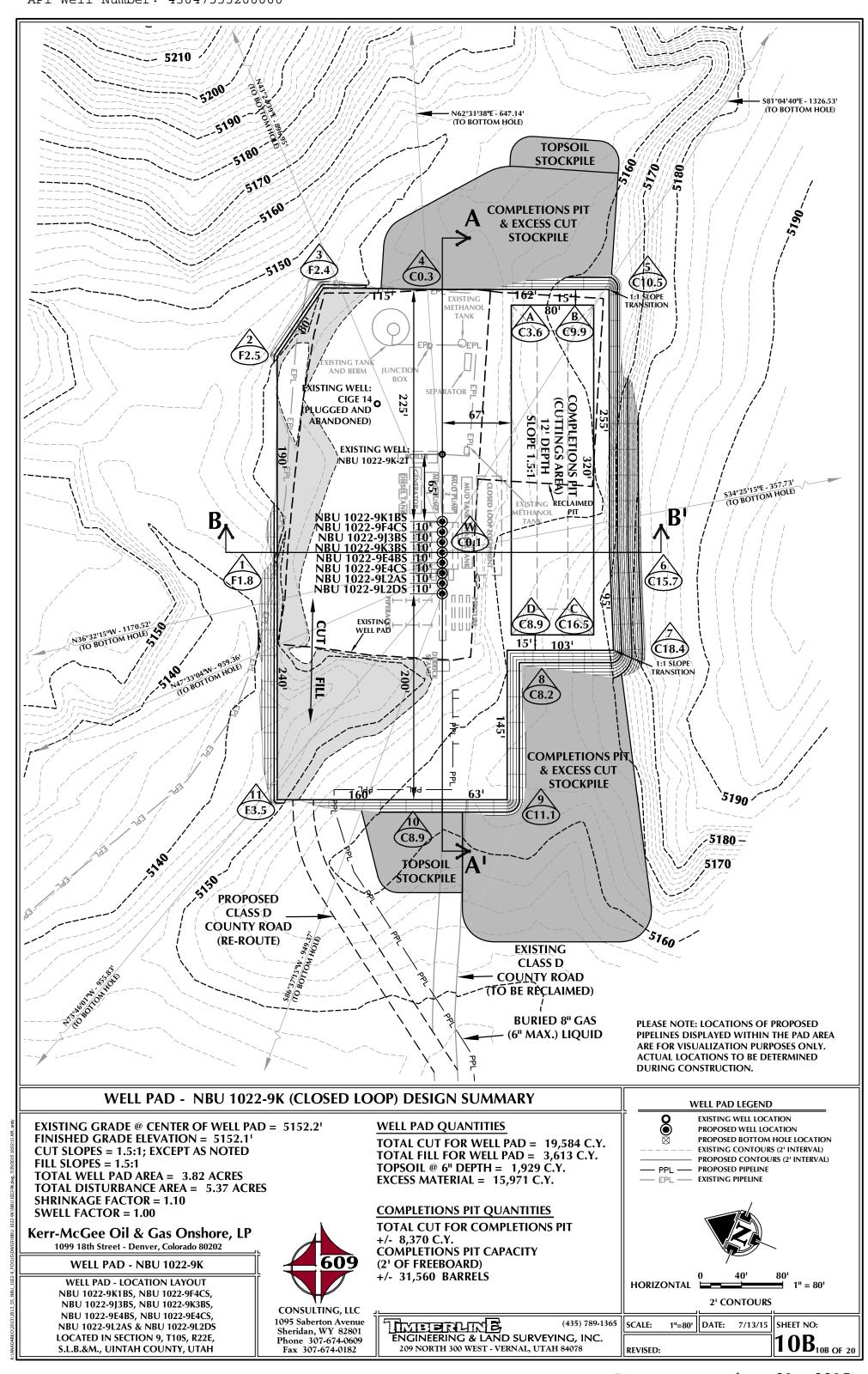
DRILLING ENGINEER:		DATE:	
	Zach Haynes/Eric Giles	_	
DRILLING SUPERINTENDENT:		DATE:	
	Lovel Young	_	

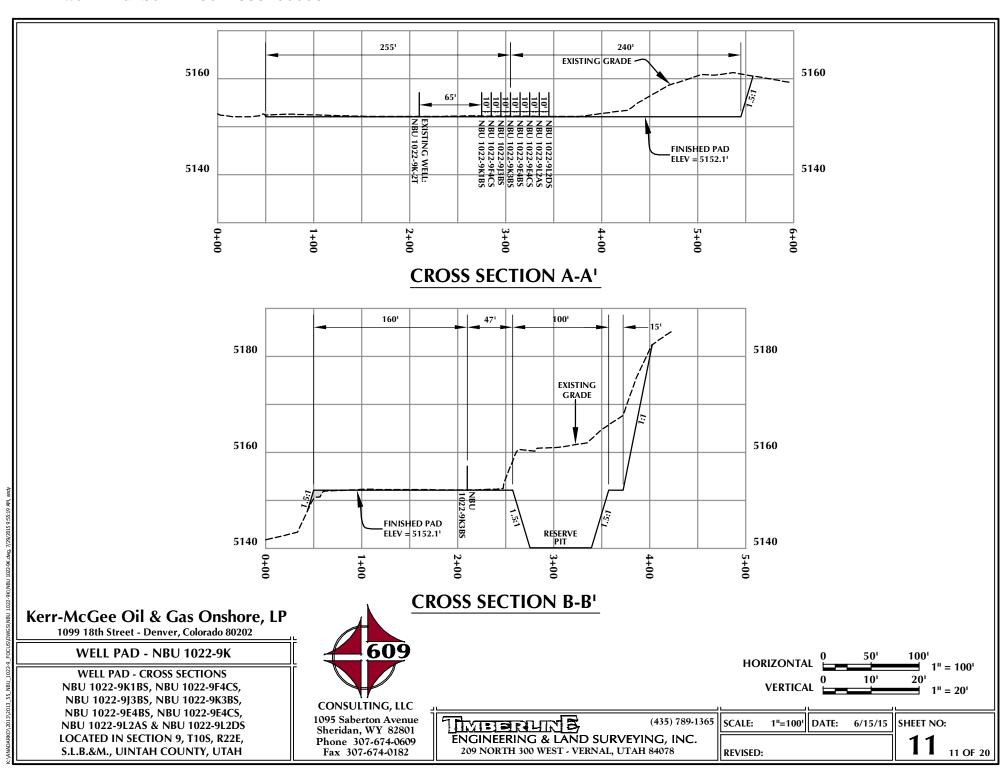
^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

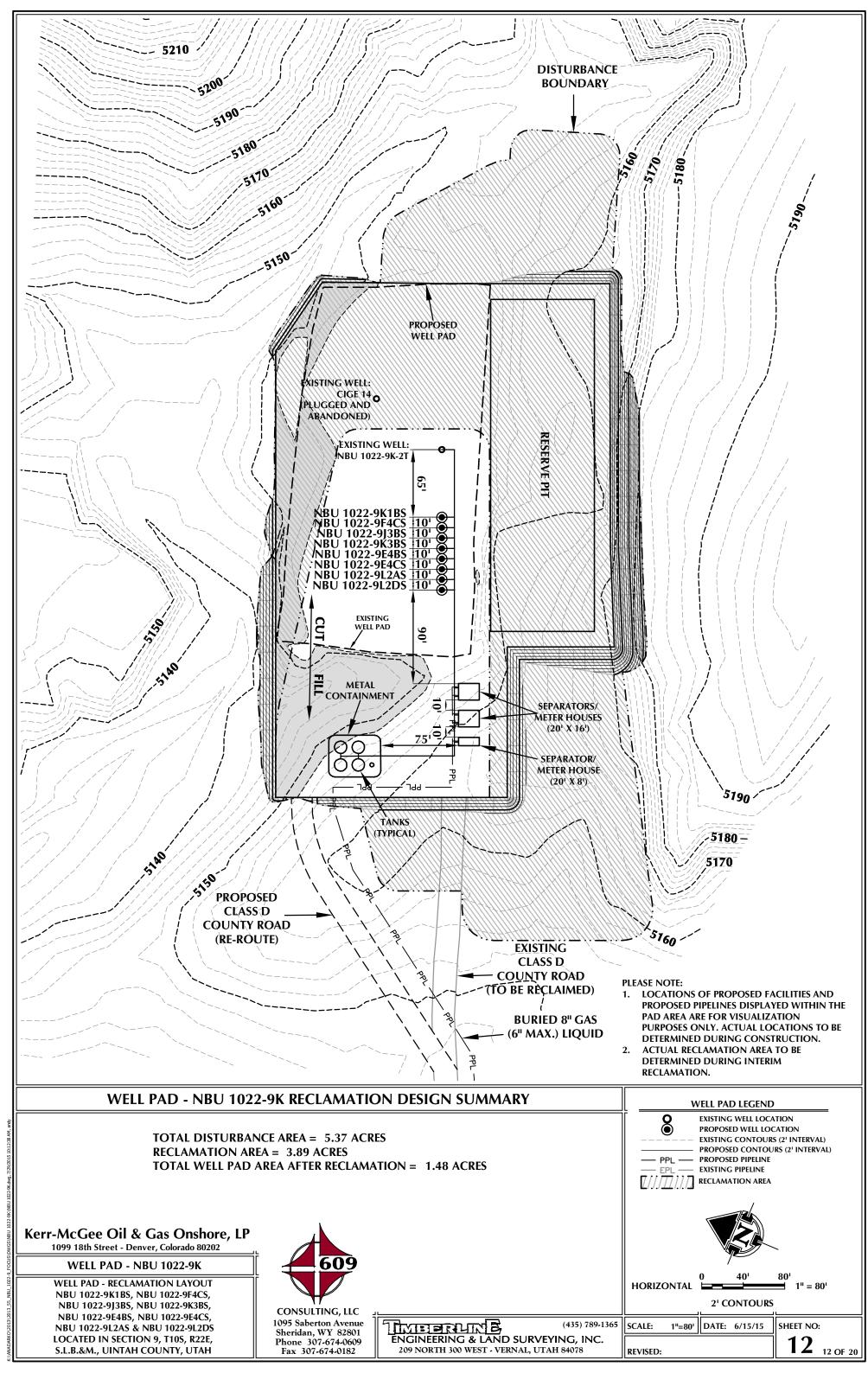


			SURFACE	POSITION	N						В	OTTOM HOL	E		
WELL NAME		AD83	IDE LAT	NAD		ITUDE	OOTAGES	1 4 7 1 7	NAD		CITUDE		AD27		FOOTAGES
NBU	LATITUDE 39°57'43.212"	LONGITU N 109°26'56.9		TUDE 43.336"N 1	LONG 109°26'5		OOTAGES 2100' FSL	39°57'4			GITUDE 49.529"W	39°57'46.284"	_	ONGITUDE 9°26'47.070"W	2396' FSL
1022-9K1BS	39.962003°N	109.449139	°W 39.962	038°N 1	109.4484	156°W 1	424' FWL	39.9628	322°N	109.447	7091°W	39.962857°N	109	9.446408°W	1999' FWL
NBU 1022-9F4CS	39°57'43.172" 39.961992°N	N 109°26'57.0 109.449172'			109°26'5 109.4484	_	2096' FSL 415' FWL	39°57'4! 39.9637			'49.104"W 5973°W	39°57'49.733" 39.963815°N	1	9°26'46.644"W 9.446290°W	2533' FNL 2033' FWL
NBU	39°57'43.132" 39.961981°N			43.257"N 1		4.677"W 2	2092' FSL	39°57'4 39.9614				39°57'41.221" 39.961450°N	1	9°26'37.853"W	1881' FSL
1022-9J3BS NBU	39°57'43.093"	109.449205 N 109°26'57.2			109.4485 109°26'5		406' FWL 2088' FSL				4531°W '54.659"W	39°57'40.301"	_	9.443848°W 9°26'52.200"W	2572 FEL 1792 FSL
1022-9K3BS	39.961970°N	109.449237	°W 39.962	005°N 1	109.4485	554°W 1	397' FWL	39.9611	60°N	109.448	3516°W	39.961195°N		9.447833°W	1598' FWL
NBU 1022-9E4BS	39°57'43.053" 39.961959°N	N 109°26'57.3 109.449270			109°26'5 109.4485		2084' FSL 387' FWL	39.9645			'06.318"W 1 <i>7</i> 55°W	39°57'52.470" 39.964575°N	1	9°27'03.858"W 9.451072°W	2258 FNL 693 FWL
NBU 1022-9E4CS	39°57'43.014" 39.961948°N	N 109°26'57.4 109.449303			109°26'5 109.4486	_	2080' FSL	39°57'49 39.9637			'06.578"W 1827°W	39°57'49.536" 39.963760°N	1	9°27'04.118"W 9.451144°W	2555' FNL
NBU	39°57'42.974"		08"W 39°57'	43.098"N 1	109°26'5	5.148"W 2	378' FWL 2076' FSL	39°57'4.	5.615"N			39°57'45.740"		9°27'06.930"W	672' FWL 2347' FSL
1022-9L2AS NBU	39.961937°N 39°57'42.935"	109.449335 N 109°26'57.7			109.4486 109°26'5		369' FWL 2072' FSL	39.9626			2608°W '09.894"W	39.962705°N 39°57'42.507"		9.451925°W 9°27'07.433"W	4521 FWL
1022-9L2DS	39.961926°N	109-26-37.7		I'	109-26 5	_	360' FWL	39.9617			09.694 W 2748°W	39.961808°N	1.00	9.452065°W	2020' FSL 412' FWL
NBU 1022-9K-2T	39°57'43.469" 39.962075°N	N 109°26'56.1 109.448926			109°26'5 109.4482	_	2126' FSL 484' FWL								
CIGE 14	39°57'44.234"	N 109°26'55.8	82"W 39°57'	44.358"N 1	109°26'5	3.422"W 2	2203' FSL								
	39.962287°N	109.448856			109.4481		504' FWL								
WELL NAME	NORTH	EAST	RE WELL NAM		OORDI	INATES - F	rom Surface		n to Botto		e EAST	WELL NA	ME	NORTH	EAST
NBU	298.5	574.21	NBU	65	51.6 ¹	616,4 ¹	NBU	I TANTE	-205.		1310.5 ¹	NBU NBU	,71L	-295.1 [']	202.2 ¹
1022-9K1BS			1022-9F4C	S			1022-9	_				1022-9K3			
WELL NAME NBU	NORTH	696 Q	NBU NAM		ORTH	-707.9	WELL NBU	NAME	NOR1		EAST -917.7'	NBU WELL NA	IVIE	NORTH 56.0'	947.71
022-9E4BS	940.51	-696.9'	1022-9E4C	s 64	47.51	-/0/.9"	1022-9	L2AS	267.	.2.		1022-9L2I		-56.0'	-947.7'
N73°4	Z=286.233	10 1 2 40 0 10 10 10 10 10 10 10 10 10 10 10 10	SOLIONATION	£50,052		Ü	gged & Aba			/ N1	4°16'12	N62°31' N62°31' 1000° "E - 79.82' VELL: NBI			
S86	Z=286.233 6'01"W - 6 Bottom Ho Az=266.6 5°37'15"W	806° 955.83' 100' - 2083° 1 - 949.37		10',10	1,18	10, 10, 10	A Val	og yes	(s), /	EXIS ⁻	4°16'12 TING V	VELL: NBI	U 1(022-9K-2	\
S86	Z=286.233 6'01"W - 6 Bottom Ho Az=266.6 5°37'15"W	806° 955.83' 100' - 2083° 1 - 949.37		10',10	NBU NBU	10, 10, 10	A Val	og yes	(s), /	EXIS ⁻	4°16'12 TING V	VELL: NBI	U 1(022-9K-2	
S86	Z=286.233 6'01"W - 6 Bottom Ho Az=266.6 5°37'15"W	806° 955.83' 100' - 2083° 1 - 949.37		10',10	1/8U 03	10, 10, 10	A Val	og yes	(s), /	EXIS ⁻	4°16'12 TING V	VELL: NBI	U 1(022-9K-2	\
S86	Z=286.233 6'01"W - 6 Bottom Ho Az=266.6 5°37'15"W	806° 955.83' 100' - 2083° 1 - 949.37		10',10	NEU OS	10, 10, 10	A Val	og yes	(s), /	EXIS ⁻	4°16'12 TING V	VELL: NBI	U 1(022-9K-2	
BASIS OF BE OF THE SW S.L.B.&M. W GLOBAL PO OBSERVATIO	AZ=266.6 5°37'15"W (To Bottor ARINGS IS T 4 OF SECTIONING ONS TO BEA	806° 955.83° 2083° 2949.37 m Hole) 23'11"N	INE R22E,	10',10	180 100 ABU 10	10, 10, 10	A Val	og yes	(s), /	EXIS ⁻	4°16'12 TING V	VELL: NBI	U 1(022-9K-2	
BASIS OF BE OF THE SW S.L.B.&M. W GLOBAL PO OBSERVATIO	Az=266.6 5°37'15"W (To Bottor S66' ARINGS IS T 4 OF SECTIC HICH IS TAI SITIONING ONS TO BEA S C A	2083° 2083° 2083° 2949.37 m Hole) 23'\1"N 23'\1"N 23'\1"N 23'\1"N 23'\1"N EHE WEST L DN 9, T10S, KEN FROM SATELLITE AR N00°08'5	INE R22E,	10',10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10, 10, 10	A Val	og yes	(s), /	EXIS ⁻	4°16'12 TING V	VELL: NBI	U 1(022-9K-2	\
BASIS OF BE OF THE SW. S.L.B.&M. W GLOBAL PO OBSERVATIO	Az=266.6 5°37'15"W (To Bottor S66' ARINGS IS T 4 OF SECTIC HICH IS TAI SITIONING ONS TO BEA S C A	2083° 1-949.37 m Hole) 2311"N 2311"N 2311"N 2363636 THE WEST L DN 9, T10S, KEN FROM SATELLITE RR N00°08'5	INE R22E, 33"W. 0	10',10	No. Charles	10, 10, 10	MAS AND SOLICE	og yes	(s), /	EXIS ⁻	4°16'12 TING V	VELL: NBI	U 1(022-9K-2	\
BASIS OF BE OF THE SW S.L.B.&M. W GLOBAL PO OBSERVATIO	Az=266.6 5°37'15"W (To Bottor AGENTIC STATE OF SECTION OF SECTI	2083° 2083° 2083° 2949.37 The Hole) 23'11"N 23'11"N 23'11"N EN FROM SATELLITE AR N00°08'5 L E & Gas C Denver, Color	INE R22E, 53"W. Onshore rado 80202	10',10	180 103 185 185 185 185 185 185 185 185 185 185	10, 10, 10	A Val	og yes	185 % (St. No. 102. 98. 2) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	EXIST EXIST NO. 102.9 ST. W.H. Co.	A S81°04 (TO BO) (1022) 9K27 W.H. 106.366.39. 123.	VELL: NBU Z=98.922 '40"E - 13. Dittom Hole 94.37 W. H. Be 38639 105.3. 105.3. 3. 105.3.	U 1(022-9K-2	
BASIS OF BE OF THE SW S.L.B.&M. W GLOBAL PO OBSERVATIO	Az=266.6 6°37'15"W (To Bottom Ho Az=266.6 6°37'15"W (To Bottor ARINGS IS T 4 OF SECTIC HICH IS TAI SITIONING ONS TO BEA S C A Gee Oil 8th Street - D L PAD -	2083° 1 - 949.37 m Hole) 23'11"N 23'11"N 23'11"N 23'11"N EN FROM SATELLITE AR N00°08'5 L E & Gas C Penver, Color BU 10 ERFERENCE	INE R22E, 33"W. Onshore rado 80202 022-9K CE PLAT	, LP	180 03 18	10, 10, 10	1023 9K 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	og yes	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EXIST EXIST NO. 1022 9 STATE WHITE ENGINEER	S81°04 (TO BO (NO) 1022 9K 27 W.H. 66 36639° 123 NEERIN	VELL: NBI	22°° 226.53° 23° 23° 23° 23° 23° 23° 23° 23° 23° 2	022-9K-2	N 35) 789-136 G, INC.
BASIS OF BE OF THE SW. S.L.B.&M. W GLOBAL PO OBSERVATION WELL WELL WELLS	Az=266.6 6°37'15"W Gostrom Ho Az=266.6 6°37'15"W ARINGS IS T GOSTRO BEA SCA Gee Oil 8th Street - D LL PAD INT NBU 1022-9	2083° 1-949.37 m Hole) 23'11"N 23'11"N 23'11"N 23'11"N 23'11"N 23'11"N 23'11"N 23'11"N 23'11"N 246.38639 THE WEST L DN 9, T10S, KEN FROM SATELLITE RR N00°08'5 L E R Gas C ENBU 1(ERFERENCE K1BS, NBU	INE R22E, 33"W. Dnshore rado 80202 D22-9K CE PLAT 1022-9F4CS	, LP		Az= \$34°25 (To I	180 1023 96 36 36 36 36 36 36 36 36 36 36 36 36 36	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TIS A CALLER VOLONO STATE OF THE PARTY OF TH	EXIST EXIST EXIST A GAIST	S81°04 (TO BO (NBU 1032) (A) 1032 (A) 1032	VELL: NBU Z=98.922 '40"E - 13. Ottom Hold 34. 16. 36.36.36.36.36.36.36.36.36.36.36.36.36.3	22° (26.5)	022-9K-2 53' (4 URVEYING AL, UTAH 84	35) 789-1365 G, INC.
BASIS OF BE OF THE SW S.L.B.&M. W GLOBAL PO OBSERVATIO WELL WELL WELLS- NBI NBI	AZ=266.6 6°37'15"W AZ=266.6 6°37'15"W (To Bottor S66° ARINGS IS T 4 OF SECTIC HICH IS TAI SITIONING ONS TO BEA S C A Gee Oil 8th Street - D L PAD INT NBU 1022-91389 U 1022-91389 U 1022-91389 U 1022-91489	2083° 2949.37° m Hole) 23'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Onshore 2022-9K E PLAT 1022-9F4CS, -9E4CS,	, LP		Az= \$34°25 (To I	1/80 1/80 1/80 1/80 1/80 1/80 1/80 1/80	3 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	** ** ** ** ** ** ** ** ** ** ** ** **	EXIST EXIST OF STANLING OF SURVES	S81°04 (To Bo S81°04 (To Bo S81°04 (To Bo S81°04 S81°04	VELL: NBU Z=98.922. '40"E - 13. Ottom Hold 30.0 WEST - V SURVEYED	U 10 22° 226.5 236.39 D SU BY: A	022-9K-2 53' (4 URVEYING AL, UTAH 84 A.F.	35) 789-1365 G, INC. 078 SHEET NC
BASIS OF BE OF THE SW S.L.B.&M. W GLOBAL PO OBSERVATIO WELLS WELL WELLS NBI NBI NBI	Az=266.6 6°37'15"W Az=266.6 6°37'15"W (To Bottor S66° ARINGS IS T 4 OF SECTIC HICH IS TAI SITIONING ONS TO BEA OR S C A Gee Oil 8th Street - D L PAD INT NBU 1022-9 U 1022-9J385	2083° 2083° 2083° 2083° 2949.37 The Hole) 23 1863° The West L DN 9, T10S, KEN FROM SATELLITE R N00°08'5 L E R MBU 1022 8 NBU 1022 8 NBU 1022 8 NBU 1022	Onshore rado 80202 022-9K CE PLAT 1022-9F4CS -9K3BS, -9E4CS, 2-9L2DS	, LP		Az= \$34°25 (To I	180 1023 9K3 10 10	STAN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	** ** ** ** ** ** ** ** ** ** ** ** **	EXIST EXIST AND TO SOLVE SURVE SOLVE SURVE SOLVE	S81°04 (To Bo S81°04 (To Bo S81°04 (To Bo S81°04 S81°04	VELL: NBU Z=98.922 '40"E - 13. Ottom Hold 34. 16. 36.36.36.36.36.36.36.36.36.36.36.36.36.3	U 10 22° 226.5 236.39 D SU BY: A	022-9K-2 53' (4 URVEYING AL, UTAH 84 A.F.	N 35) 789-1365 G, INC.









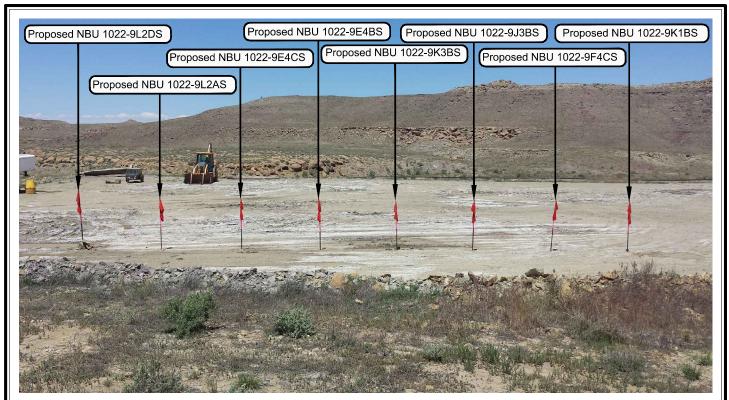


PHOTO VIEW: FROM CORNER #6 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD RE-ROUTE **CAMERA ANGLE: NORTHEASTERLY**

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-9K

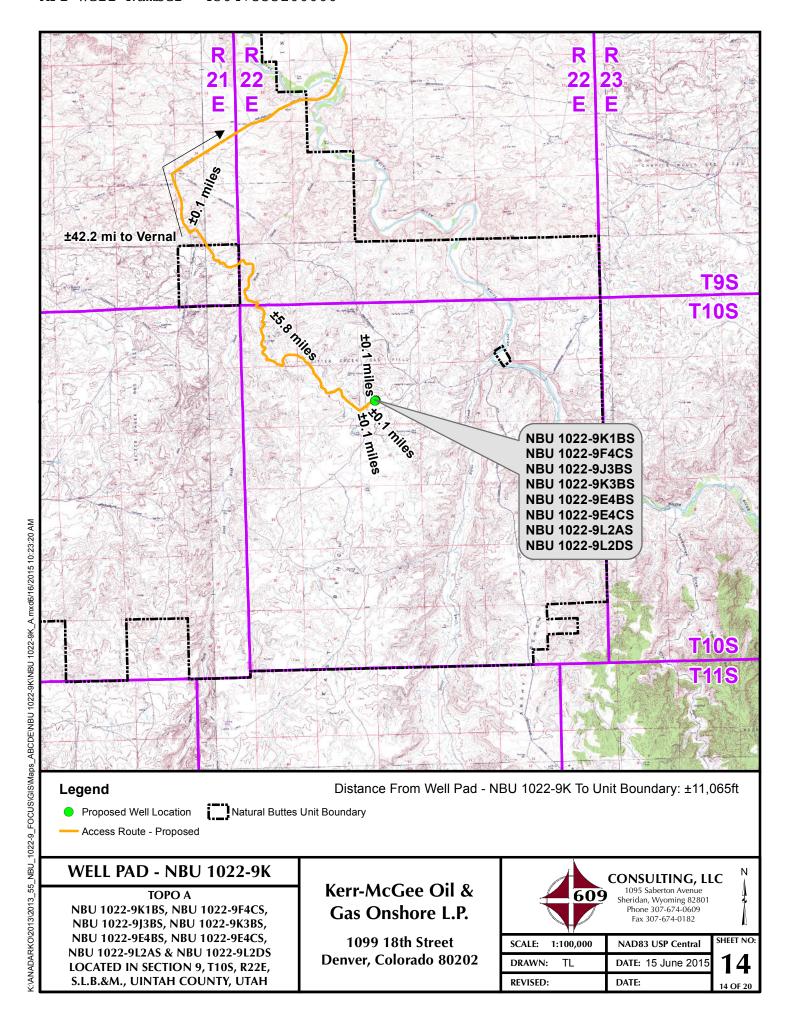
LOCATION PHOTOS NBU 1022-9K1BS, NBU 1022-9F4CS, NBU 1022-9J3BS, NBU 1022-9K3BS, NBU 1022-9E4BS, NBU 1022-9E4CS, NBU 1022-9L2AS & NBU 1022-9L2DS LOCATED IN SECTION 9, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

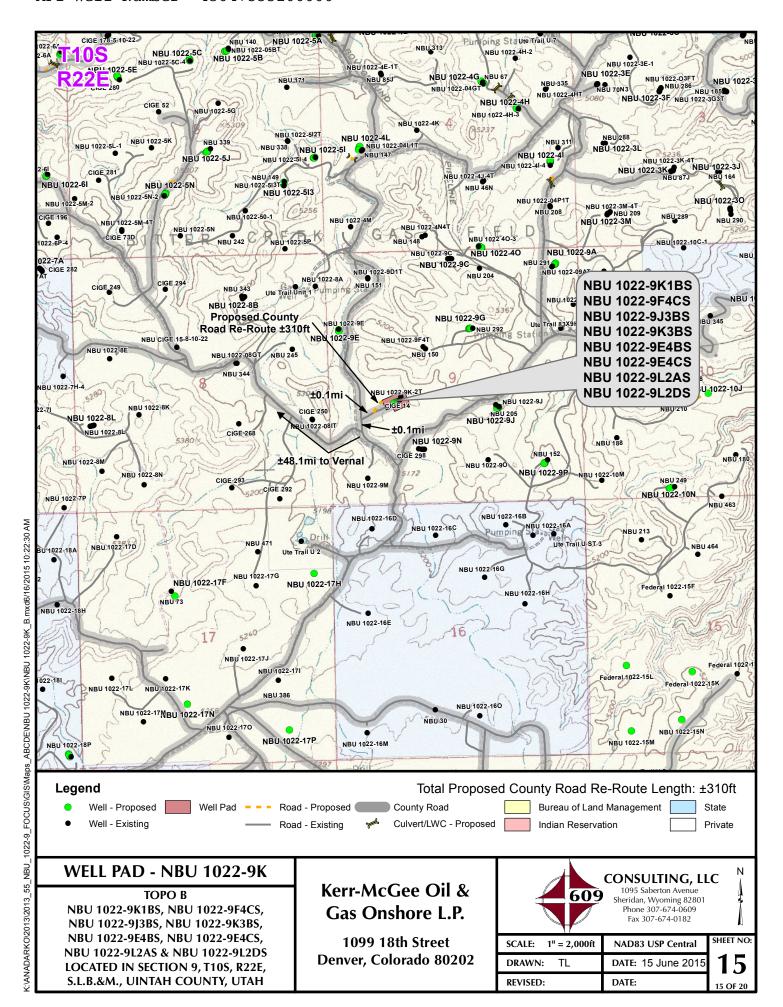


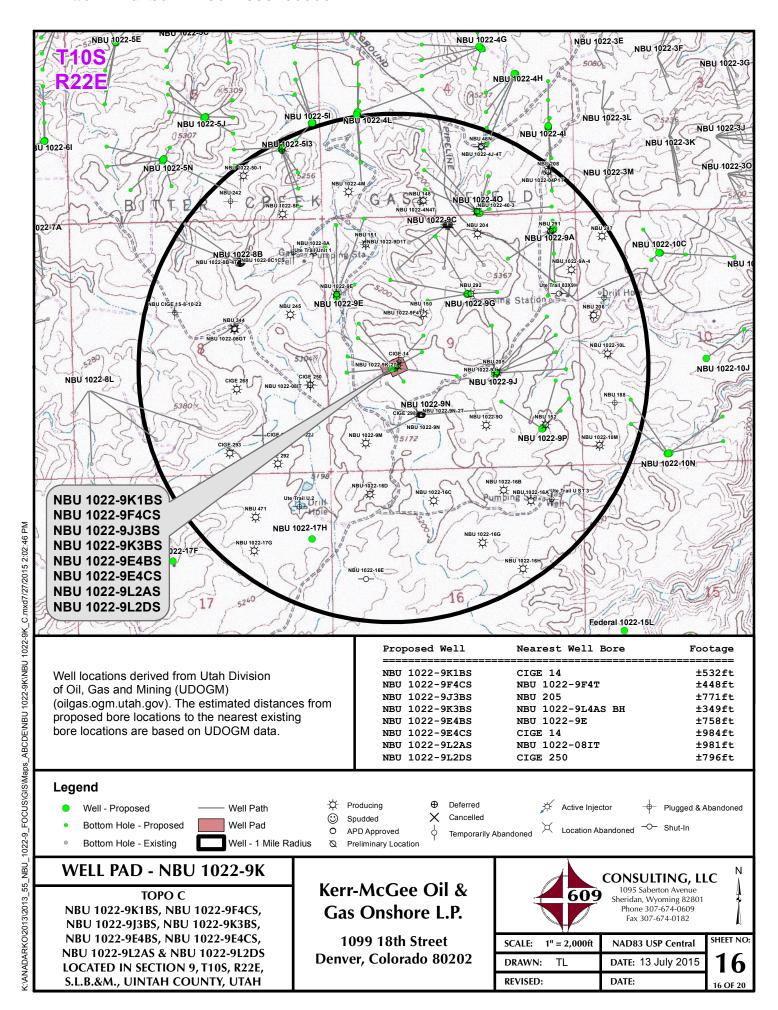
CONSULTING, LLC 1095 Saberton Ave. Sheridan, WY 82801

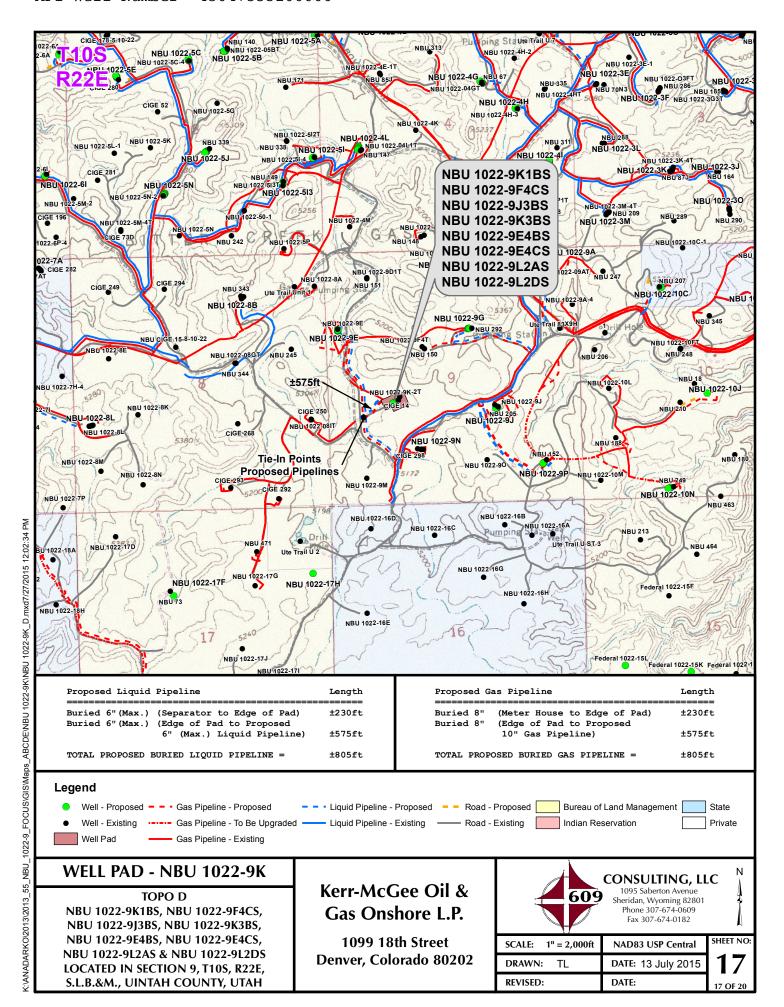
Phone 307-674-0609 Fax 307-674-0182

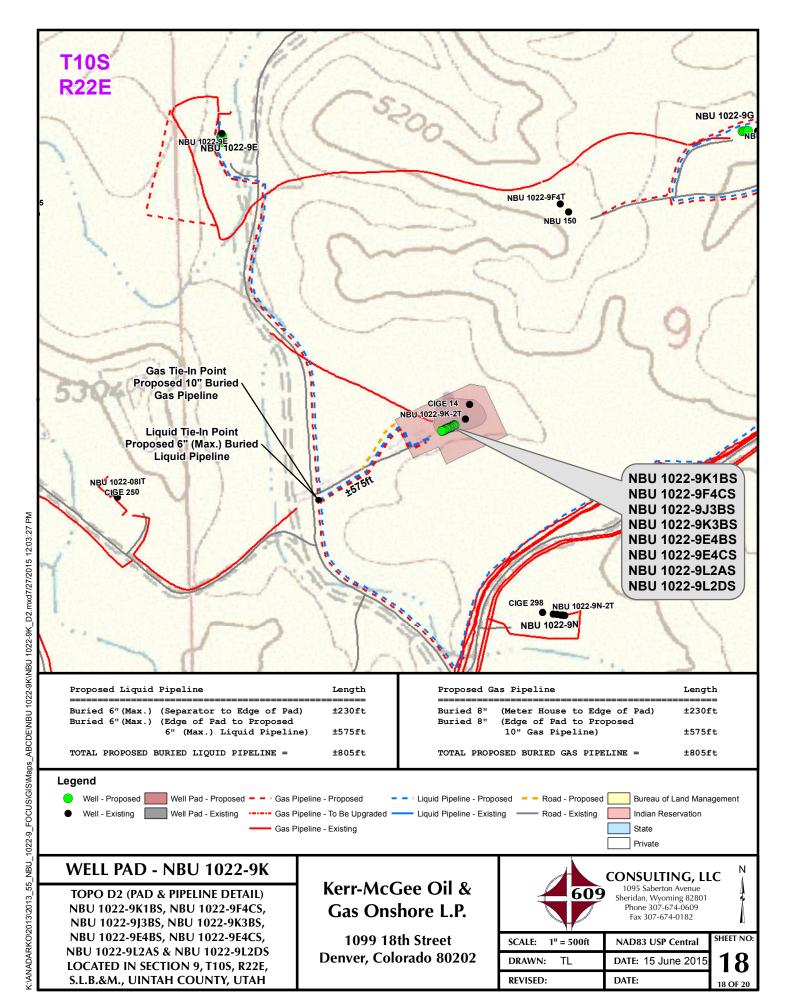
1	TMBERL		135) 789-1365
	_engineering	& LAND SURVEYIN) West - Vernal, utah 8	
	DATE PHOTOS TAKEN: 6-8-15	PHOTOS TAKEN BY: A.F.	SHEET NO:
	DATE DRAWN: 6-8-15	DRAWN BY: M.W.W.	13
	Date Last Revised:		13 OF 20

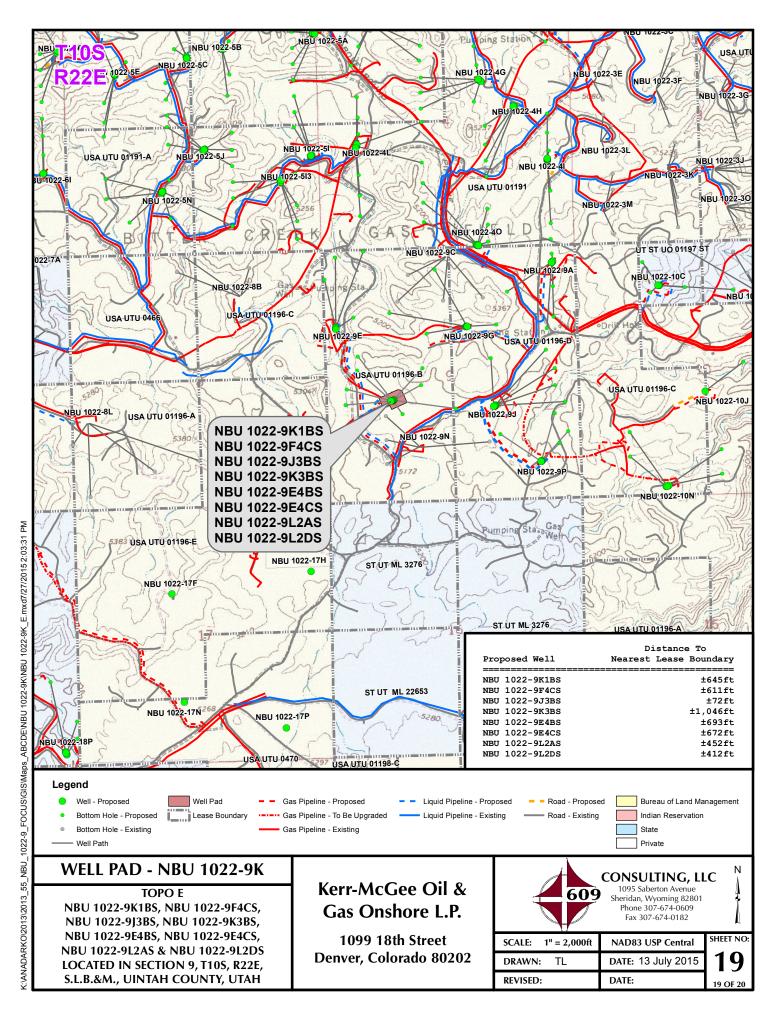












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 1022-9K WELLS - NBU 1022-9K1BS, NBU 1022-9F4CS, NBU 1022-9J3BS, NBU 1022-9K3BS, NBU 1022-9E4BS, NBU 1022-9E4CS, NBU 1022-9L2AS & NBU 1022-9L2DS Section 9, T10S, R22E, S.L.B.&M., Uintah County, Utah.

From the intersection of U.S. Highway 40 and 500 East street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 5.8 miles to a third Class D County Road to the north. Exit left and proceed in a northerly direction along the third Class D County Road approximately 0.1 miles to a service road to the northeast. Exit right and proceed in a northeasterly direction along the service road approximately 0.1 miles to the proposed access road. Follow road flags in a northeasterly direction approximately 310 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 48.4 miles in a southerly direction.

SHEET 20 OF 20

API Well Number: 43047P56jEc2:00TAHO UTM (feet), NAD27, Zone 12N

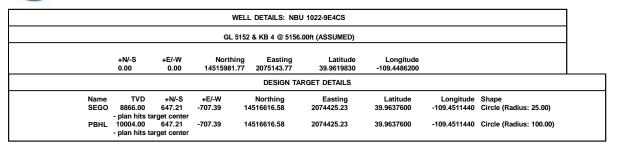
Scientific Drilling

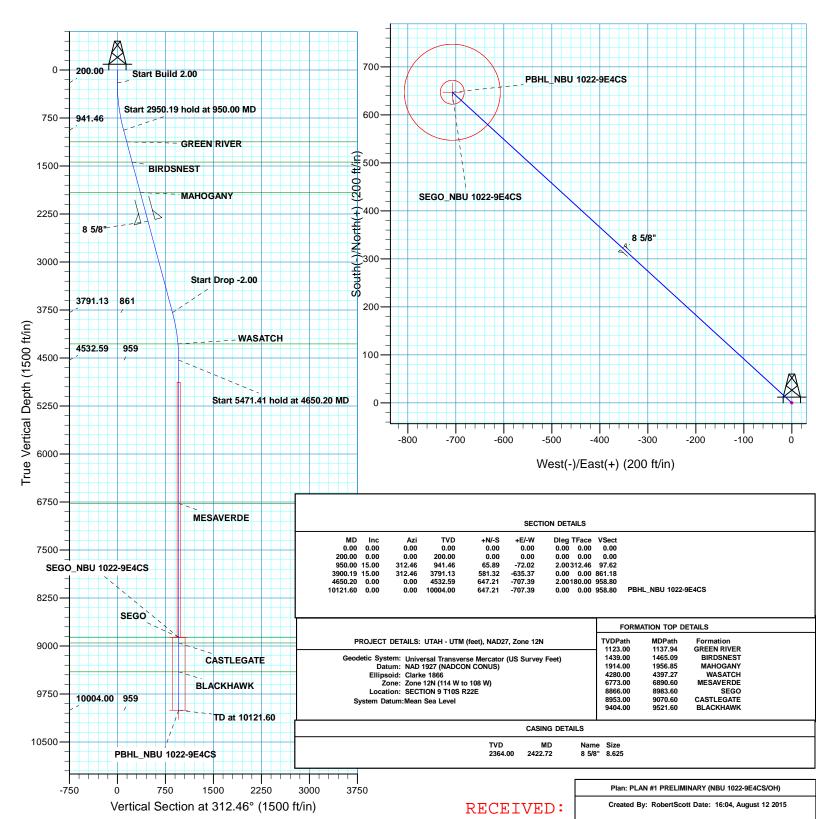
Site: NBU 1022-9K PAD Well: NBU 1022-9E4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY









US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 1022-9K PAD NBU 1022-9E4CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

12 August, 2015





Planning Report



Denver Sales Database:

Company: US ROCKIES REGION PLANNING Project: UTAH - UTM (feet), NAD27, Zone 12N

NBU 1022-9K PAD Site: Well: NBU 1022-9E4CS

Wellbore: ОН

PLAN #1 PRELIMINARY Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 1022-9E4CS

GL 5152 & KB 4 @ 5156.00ft (ASSUMED) GL 5152 & KB 4 @ 5156.00ft (ASSUMED)

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Geo Datum: Zone 12N (114 W to 108 W) Map Zone:

Mean Sea Level

NBU 1022-9K PAD, SECTION 9 T10S R22E Site

Northing: 14,516,002.60 usft Site Position: Latitude: 39.9620380 From: Lat/Long Easting: 2,075,189.38 usft Longitude: -109.4484560 **Position Uncertainty:** 3.28 ft Slot Radius: **Grid Convergence:** 1.00 9 13.200 in

System Datum:

Well NBU 1022-9E4CS, 2080 FSL 1378 FWL

Well Position +N/-S -20.03 ft 14,515,981.78 usft Latitude: 39.9619830 Northing: +E/-W -45.97 ft Easting: 2,075,143.77 usft Longitude: -109.4486200

Position Uncertainty 3.28 ft Wellhead Elevation: 0.00 ft **Ground Level:** 5,152.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (nT) (°) (°) BGGM2014 8/6/2015 10.66 65.73 51,761

PLAN #1 PRELIMINARY Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 312.46

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
950.00	15.00	312.46	941.46	65.89	-72.02	2.00	2.00	0.00	312.46	
3,900.19	15.00	312.46	3,791.13	581.32	-635.37	0.00	0.00	0.00	0.00	
4,650.20	0.00	0.00	4,532.59	647.21	-707.39	2.00	-2.00	0.00	180.00	
10,121.60	0.00	0.00	10,004.00	647.21	-707.39	0.00	0.00	0.00	0.00	PBHL_NBU 1022-9E



Planning Report



Database: Denver Sales

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

Project: UTAH - UTM (feet), NAD
Site: NBU 1022-9K PAD

Well: NBU 1022-9E4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 1022-9E4CS

GL 5152 & KB 4 @ 5156.00ft (ASSUMED) GL 5152 & KB 4 @ 5156.00ft (ASSUMED)

True

n:	FLAN#I FRE								
ned Survey									
Measured Depth (ft)	Inclination	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.0									
300.00	2.00	312.46	299.98	1.18	-1.29	1.75	2.00	2.00	0.00
400.00	4.00	312.46	399.84	4.71	-5.15	6.98	2.00	2.00	0.00
500.00	6.00	312.46	499.45	10.59	-11.58	15.69	2.00	2.00	0.00
600.00	8.00	312.46	598.70	18.82	-20.57	27.88	2.00	2.00	0.00
700.00	10.00	312.46	697.47	29.38	-32.11	43.52	2.00	2.00	0.00
800.00			795.62	42.26	-32.11 -46.19	62.60		2.00	
	12.00	312.46					2.00		0.00
900.00	14.00	312.46	893.06	57.44	-62.78	85.10	2.00	2.00	0.00
950.00	15.00	312.46	941.46	65.89	-72.02	97.62	2.00	2.00	0.00
	hold at 950.00								
1,000.00	15.00	312.46	989.76	74.63	-81.57	110.56	0.00	0.00	0.00
,			1,086.35	92.10		136.44	0.00	0.00	0.00
1,100.00	15.00	312.46			-100.66				
1,137.94	15.00	312.46	1,123.00	98.73	-107.91	146.26	0.00	0.00	0.00
GREEN RIVE									
1,200.00	15.00	312.46	1,182.94	109.57	-119.76	162.32	0.00	0.00	0.00
1,300.00	15.00	312.46	1,279.54	127.04	-138.85	188.20	0.00	0.00	0.00
						214.08		0.00	
1,400.00	15.00	312.46	1,376.13	144.51	-157.95		0.00		0.00
1,465.09	15.00	312.46	1,439.00	155.88	-170.38	230.93	0.00	0.00	0.00
BIRDSNEST									
1,500.00	15.00	312.46	1,472.72	161.98	-177.05	239.97	0.00	0.00	0.00
1,600.00	15.00	312.46	1,569.31	179.45	-196.14	265.85	0.00	0.00	0.00
1 700 00	15.00	212.46	1 665 01	106.02	215 24	201.72	0.00	0.00	0.00
1,700.00	15.00	312.46	1,665.91	196.93	-215.24	291.73	0.00		0.00
1,800.00	15.00	312.46	1,762.50	214.40	-234.33	317.61	0.00	0.00	0.00
1,900.00	15.00	312.46	1,859.09	231.87	-253.43	343.49	0.00	0.00	0.00
1,956.85	15.00	312.46	1,914.00	241.80	-264.28	358.21	0.00	0.00	0.00
MAHOGANY									
2,000.00	15.00	312.46	1,955.68	249.34	-272.52	369.38	0.00	0.00	0.00
0.400.00	45.00	240.40	0.050.00	000.04	204.62	205.00	0.00	0.00	0.00
2,100.00	15.00	312.46	2,052.28	266.81	-291.62	395.26	0.00	0.00	0.00
2,200.00	15.00	312.46	2,148.87	284.28	-310.71	421.14	0.00	0.00	0.00
2,300.00	15.00	312.46	2,245.46	301.75	-329.81	447.02	0.00	0.00	0.00
2,400.00	15.00	312.46	2,342.05	319.22	-348.90	472.90	0.00	0.00	0.00
2,422.72	15.00	312.46	2,364.00	323.19	-353.24	478.78	0.00	0.00	0.00
8 5/8"									
2,500.00	15.00	312.46	2,438.65	336.69	-368.00	498.78	0.00	0.00	0.00
,	15.00				-368.00 -387.10	498.78 524.67	0.00	0.00	0.00
2,600.00		312.46	2,535.24	354.16					
2,700.00	15.00	312.46	2,631.83	371.63	-406.19	550.55	0.00	0.00	0.00
2,800.00	15.00	312.46	2,728.42	389.11	-425.29	576.43	0.00	0.00	0.00
2,900.00	15.00	312.46	2,825.02	406.58	-444.38	602.31	0.00	0.00	0.00
3,000.00	15.00	312.46	2,921.61	424.05	-463.48	628.19	0.00	0.00	0.00
3,100.00	15.00	312.46	3,018.20	441.52	-482.57	654.08	0.00	0.00	0.00
3,200.00	15.00	312.46	3,114.80	458.99	-501.67	679.96	0.00	0.00	0.00
3,300.00	15.00	312.46	3,211.39	476.46	-520.76	705.84	0.00	0.00	0.00
3,400.00	15.00	312.46	3,307.98	493.93	-539.86	731.72	0.00	0.00	0.00
3,500.00	15.00	312.46	3,404.57	511.40	-558.96	757.60	0.00	0.00	0.00
3,600.00	15.00	312.46	3,501.17	528.87	-578.05	783.49	0.00	0.00	0.00
3,700.00	15.00	312.46	3,597.76	546.34	-597.15	809.37	0.00	0.00	0.00
3,800.00	15.00	312.46	3,694.35	563.82	-616.24	835.25	0.00	0.00	0.00
3,900.00	15.00	312.46	3,790.94	581.29	-635.34	861.13	0.00	0.00	0.00
0,000.00	10.00	012.70	0,100.07						
3,900.19	15.00	312.46	3,791.13	581.32	-635.37	861.18	0.00	0.00	0.00



Planning Report



Database: Denver Sales

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-9K PAD

 Well:
 NBU 1022-9E4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 1022-9E4CS

GL 5152 & KB 4 @ 5156.00ft (ASSUMED) GL 5152 & KB 4 @ 5156.00ft (ASSUMED)

True

sigii.									
anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,000.00	13.00	312.46	3,887.97	597.62	-653.19	885.33	2.00	-2.00	0.00
4,100.00	11.00	312.46	3,985.77	611.66	-668.53	906.13	2.00	-2.00	0.00
4,200.00	9.00	312.46	4,084.25	623.38	-681.35	923.50	2.00	-2.00	0.00
4,300.00	7.00	312.46	4,183.27	632.78	-691.62	937.42	2.00	-2.00	0.00
4,397.27	5.06	312.46	4,280.00	639.68	-699.16	947.64	2.00	-2.00	0.00
WASATCH									
4,400.00	5.00	312.46	4,282.72	639.84	-699.34	947.88	2.00	-2.00	0.00
4,500.00	3.00	312.46	4,382.47	644.56	-704.49	954.86	2.00	-2.00	0.00
4,600.00	1.00	312.46	4,482.40	646.92	-707.07	958.36	2.00	-2.00	0.00
4,650.20	0.00	0.00	4,532.59	647.21	-707.39	958.80	2.00	-2.00	0.00
	hold at 4650.20		.,002.00	· · · · · · · ·		000.00	2.00	2.00	0.00
Start 347 1.41	11010 at 4030.20) IVID							
4,700.00	0.00	0.00	4,582.40	647.21	-707.39	958.80	0.00	0.00	0.00
4,800.00	0.00	0.00	4,682.40	647.21	-707.39	958.80	0.00	0.00	0.00
4,900.00	0.00	0.00	4,782.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,000.00	0.00	0.00	4,882.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,100.00	0.00	0.00	4,982.40	647.21	-707.39	958.80	0.00	0.00	0.00
*									
5,200.00	0.00	0.00	5,082.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,300.00	0.00	0.00	5,182.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,400.00	0.00	0.00	5,282.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,500.00	0.00	0.00	5,382.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,600.00	0.00	0.00	5,482.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,700.00	0.00	0.00	5,582.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,800.00	0.00	0.00	5,682.40	647.21	-707.39	958.80	0.00	0.00	0.00
5,900.00	0.00	0.00	5,782.40	647.21	-707.39	958.80	0.00	0.00	0.00
6,000.00	0.00	0.00	5,882.40	647.21	-707.39	958.80	0.00	0.00	0.00
6,100.00	0.00	0.00	5,982.40	647.21	-707.39	958.80	0.00	0.00	0.00
0,100.00		0.00			-707.55				
6,200.00	0.00	0.00	6,082.40	647.21	-707.39	958.80	0.00	0.00	0.00
6,300.00	0.00	0.00	6,182.40	647.21	-707.39	958.80	0.00	0.00	0.00
6,400.00	0.00	0.00	6,282.40	647.21	-707.39	958.80	0.00	0.00	0.00
6,500.00	0.00	0.00	6,382.40	647.21	-707.39	958.80	0.00	0.00	0.00
6,600.00	0.00	0.00	6,482.40	647.21	-707.39	958.80	0.00	0.00	0.00
6,700.00	0.00	0.00	6,582.40	647.21	-707.39	958.80	0.00	0.00	0.00
,			6,682.40			958.80		0.00	
6,800.00	0.00	0.00		647.21	-707.39		0.00		0.00
6,890.60	0.00	0.00	6,773.00	647.21	-707.39	958.80	0.00	0.00	0.00
MESAVERDE			0.700	0.7= 5.		0.75.55			
6,900.00	0.00	0.00	6,782.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,000.00	0.00	0.00	6,882.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,100.00	0.00	0.00	6,982.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,200.00	0.00	0.00	7,082.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,300.00	0.00	0.00	7,182.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,400.00	0.00	0.00	7,282.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,500.00	0.00	0.00	7,382.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,600.00	0.00	0.00	7,482.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,700.00	0.00	0.00	7,582.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,800.00	0.00	0.00	7,682.40	647.21	-707.39	958.80	0.00	0.00	0.00
7,900.00	0.00	0.00	7,782.40	647.21	-707.39	958.80	0.00	0.00	0.00
8,000.00	0.00	0.00	7,882.40	647.21	-707.39	958.80	0.00	0.00	0.00
8,100.00	0.00	0.00	7,982.40	647.21	-707.39	958.80	0.00	0.00	0.00
8,200.00	0.00	0.00	8.082.40	647.21	-707.39	958.80	0.00	0.00	0.00
8,300.00	0.00	0.00	8,182.40	647.21	-707.39 -707.39	958.80	0.00	0.00	0.00
			8,182.40 8,282.40						
8,400.00	0.00	0.00		647.21	-707.39	958.80	0.00	0.00	0.00
8,500.00	0.00	0.00	8,382.40	647.21	-707.39	958.80	0.00	0.00	0.00
8,600.00	0.00	0.00	8,482.40	647.21	-707.39	958.80	0.00	0.00	0.00



Planning Report



Database: Denver Sales

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-9K PAD

 Well:
 NBU 1022-9E4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 1022-9E4CS

GL 5152 & KB 4 @ 5156.00ft (ASSUMED) GL 5152 & KB 4 @ 5156.00ft (ASSUMED)

True

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,700.00	0.00	0.00	8,582.40	647.21	-707.39	958.80	0.00	0.00	0.00
8,800.00	0.00	0.00	8,682.40	647.21	-707.39	958.80	0.00	0.00	0.00
8,900.00	0.00	0.00	8,782.40	647.21	-707.39	958.80	0.00	0.00	0.00
8,983.60	0.00	0.00	8,866.00	647.21	-707.39	958.80	0.00	0.00	0.00
SEGO - SEG	O_NBU 1022-9E	4CS							
9,000.00	0.00	0.00	8,882.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,070.60	0.00	0.00	8,953.00	647.21	-707.39	958.80	0.00	0.00	0.00
CASTLEGAT	Έ								
9,100.00	0.00	0.00	8,982.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,200.00	0.00	0.00	9,082.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,300.00	0.00	0.00	9,182.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,400.00	0.00	0.00	9,282.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,500.00	0.00	0.00	9,382.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,521.60	0.00	0.00	9,404.00	647.21	-707.39	958.80	0.00	0.00	0.00
BLACKHAW	K								
9,600.00	0.00	0.00	9,482.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,700.00	0.00	0.00	9,582.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,800.00	0.00	0.00	9,682.40	647.21	-707.39	958.80	0.00	0.00	0.00
9,900.00	0.00	0.00	9,782.40	647.21	-707.39	958.80	0.00	0.00	0.00
10,000.00	0.00	0.00	9,882.40	647.21	-707.39	958.80	0.00	0.00	0.00
10,100.00	0.00	0.00	9,982.40	647.21	-707.39	958.80	0.00	0.00	0.00
10,121.60	0.00	0.00	10,004.00	647.21	-707.39	958.80	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEGO_NBU 1022-9E4C - plan hits target cent - Circle (radius 25.00		0.00	8,866.00	647.21	-707.39	14,516,616.59	2,074,425.22	39.9637600	-109.4511440
PBHL_NBU 1022-9E4Ct - plan hits target cent - Circle (radius 100.0		0.00	10,004.00	647.21	-707.39	14,516,616.59	2,074,425.22	39.9637600	-109.4511440

Casing Points						
	Measured	Vertical		Casing	Hole	
	Depth	Depth		Diameter	Diameter	
	(ft)	(ft)	Name	(in)	(in)	
	2,422.72	2,364.00 8 5/8"		8.625	11.000	



Planning Report



Database: Denver Sales

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-9K PAD

 Well:
 NBU 1022-9E4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 1022-9E4CS

GL 5152 & KB 4 @ 5156.00ft (ASSUMED) GL 5152 & KB 4 @ 5156.00ft (ASSUMED)

True

nations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,137.94	1,123.00	GREEN RIVER			
	1,465.09	1,439.00	BIRDSNEST			
	1,956.85	1,914.00	MAHOGANY			
	4,397.27	4,280.00	WASATCH			
	6,890.60	6,773.00	MESAVERDE			
	8,983.60	8,866.00	SEGO			
	9,070.60	8,953.00	CASTLEGATE			
	9,521.60	9,404.00	BLACKHAWK			

Plan Annotations					
Measur	ed Vertical	Local Co	oordinates		
Depti	•	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)	Comment	
20	0.00 200.0	0.00	0.00	Start Build 2.00	
95	0.00 941.4	65.89	-72.02	Start 2950.19 hold at 950.00 MD	
3,90	0.19 3,791.1	3 581.32	-635.37	Start Drop -2.00	
4,65	0.20 4,532.5	9 647.21	-707.39	Start 5471.41 hold at 4650.20 MD	
10,12	1.60 10,004.0	647.21	-707.39	TD at 10121.60	

NBU 1022-9E4BS/1022-9E4CS/1022-9F4CS/1022-9J3BS/ 1022-9K1BS/1022-9K3BS/1022-9L2AS/1022-9L2DS Kerr-McGee Oil Gas Onshore, L.P.

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-9K PAD

<u>API #</u>		NBU 1022-9E4BS		
	Surface:	2084 FSL / 1387 FWL	NESW	Lot
	BHL:	2258 FNL / 693 FWL	SWNW	Lot
<u>API #</u>		NBU 1022-9E4CS		
	Surface:	2080 FSL / 1378 FWL	NESW	Lot
	BHL:	2555 FNL / 672 FWL	NWSW	Lot
<u>API #</u>		NBU 1022-9F4CS		
	Surface:	2096 FSL / 1415 FWL	NESW	Lot
	BHL:	2533 FNL / 2033 FWL	NESW	Lot
<u>API #</u>		NBU 1022-9J3BS		
	Surface:	2092 FSL / 1406 FWL	NESW	Lot
	BHL:	1881 FSL / 2572 FEL	NWSE	Lot
<u>API #</u>	_	NBU 1022-9K1BS		
	Surface:	2100 FSL / 1424 FWL	NESW	Lot
		2100 FSL / 1424 FWL 2396 FSL / 1999 FWL	NESW NWSE	Lot Lot
<u>API #</u>	BHL:			
<u>API #</u>	BHL:	2396 FSL / 1999 FWL		
<u>API #</u>	BHL: Surface:	2396 FSL / 1999 FWL NBU 1022-9K3BS	NWSE	Lot
<u>API #</u>	BHL: Surface: BHL:	2396 FSL / 1999 FWL NBU 1022-9K3BS 2088 FSL / 1397 FWL	NWSE NESW	Lot Lot
	BHL: Surface: BHL:	2396 FSL / 1999 FWL NBU 1022-9K3BS 2088 FSL / 1397 FWL 1792 FSL / 1598 FWL	NWSE NESW	Lot Lot
	BHL: Surface: BHL:	2396 FSL / 1999 FWL NBU 1022-9K3BS 2088 FSL / 1397 FWL 1792 FSL / 1598 FWL NBU 1022-9L2AS	NWSE NESW NESW	Lot Lot Lot
	Surface: BHL: Surface: BHL:	2396 FSL / 1999 FWL NBU 1022-9K3BS 2088 FSL / 1397 FWL 1792 FSL / 1598 FWL NBU 1022-9L2AS 2076 FSL / 1369 FWL	NWSE NESW NESW	Lot Lot Lot
<u>API #</u>	Surface: BHL: Surface: BHL:	2396 FSL / 1999 FWL NBU 1022-9K3BS 2088 FSL / 1397 FWL 1792 FSL / 1598 FWL NBU 1022-9L2AS 2076 FSL / 1369 FWL 2347 FSL / 452 FWL	NWSE NESW NESW	Lot Lot Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

NBU 1022-9E4BS/1022-9E4CS/1022-9F4CS/1022-9J3BS/ 1022-9K1BS/1022-9K3BS/1022-9L2AS/1022-9L2DS Kerr-McGee Oil Gas Onshore, L.P. Surface Use Plan of Operations 2 of 7

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on July 7, 2015. Present were:

- · Christine Cimiluca, Nick Day, Tyler Cox BLM;
- · Mitch Batty Timberline Engineering & Land Surveying, Inc.;
- Joel Malefyt, Roger Parry, Chantill Recker, Lovel Young,
 Doyle Holmes, Kelly Reyos Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

The following segments are "on-lease"

±310' (0.05 miles) – Section 9 T10S R22E (NW/4 SW/4) – On-lease UTU 01196B, from the edge of pad to the intersection in NW/4 SW/4. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

This pad will expand the existing pad for the NBU 1022-9K-2T, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on August 20, 2015. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is ± 805 ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

RECEIVED: December 21, 2015

NBU 1022-9E4BS/1022-9E4CS/1022-9F4CS/1022-9J3BS/ 1022-9K1BS/1022-9K3BS/1022-9L2AS/1022-9L2DS Kerr-McGee Oil Gas Onshore, L.P. Surface Use Plan of Operations 3 of 7

- ±230' (0.04 miles) Section 9 T10S R22E (NW/4 SW/4) On-lease UTU 01196B, BLM surface, New 8"(ma buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±575' (0.1 miles) Section 9 T10S R22E (NW/4 SW/4) On-lease UTU 01196B, BLM surface, New 8" (ma buried gas gathering pipeline from the edge of the pad to proposed 10"(max) gas pipeline.

 Please refer to Topo D2 Pad and Pipeline Detail.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is ± 805 ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±230' (0.04 miles) Section 9 T10S R22E (NW/4 SW/4) On-lease UTU 01196B, BLM surface, New 6"(ma buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±575' (0.1 miles) Section 9 T10S R22E (NW/4 SW/4) On-lease UTU 01196B, BLM surface, New 6"(max) buried liquid gathering pipeline from the edge of pad to proposed 6"(max) liquid pipeline.

 Please refer to Topo D2 Pad and Pipeline Detail.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Water will be hauled to location over the roads marked on Maps A and B.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

RECEIVED: December 21, 2015

NBU 1022-9E4BS/1022-9E4CS/1022-9F4CS/1022-9J3BS/ 1022-9K1BS/1022-9K3BS/1022-9L2AS/1022-9L2DS Kerr-McGee Oil Gas Onshore, L.P. Surface Use Plan of Operations 4 of 7

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Cultural and Paleontological Resources

RECEIVED: December 21, 2015

NBU 1022-9E4BS/1022-9E4CS/1022-9F4CS/1022-9J3BS/ 1022-9K1BS/1022-9K3BS/1022-9L2AS/1022-9L2DS Kerr-McGee Oil Gas Onshore, L.P. Surface Use Plan of Operations 5 of 7

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Resource Reports:

A Class I literature survey was completed on July 15, 2015 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 15-063.

A paleontological reconnaissance survey was completed on July 23, 2015 by SWCA Environmental Consultants. For additional details please refer to report UT15-14314-21.

Biological field survey was completed on July 10, 2014 by SWCA Environmental Consultants. For additional details please refer to report for the NBU 1022-9K pad expansion

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

NBU 1022-9E4BS/1022-9E4CS/1022-9F4CS/1022-9J3BS/ 1022-9K1BS/1022-9K3BS/1022-9L2AS/1022-9L2DS Kerr-McGee Oil Gas Onshore, L.P. Surface Use Plan of Operations 6 of 7

M. Lessee's or Operators' Representative & Certification:

Joel Malefyt
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6828

Scott Rovira General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6243

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

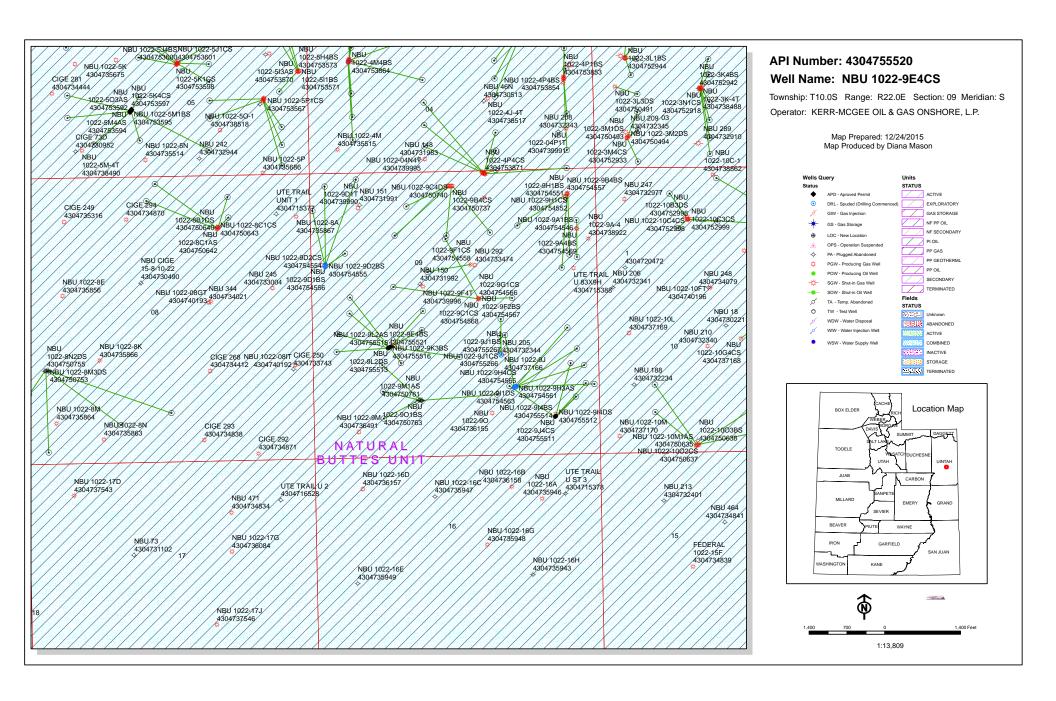
NBU 1022-9E4BS/1022-9E4CS/1022-9F4CS/1022-9J3BS/ 1022-9K1BS/1022-9K3BS/1022-9L2AS/1022-9L2DS

Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 7 of 7

August 21, 2015

Date



API Well Number: 43047555200000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office 440 West 200 South, Suite 500 Salt Lake City, UT 84101

IN REPLY REFER TO: 3160 (UT-922)

January 12, 2016

Memorandum

To: Assistant Field Office Manager Minerals,

Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2016 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2016 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

PAD NBU 1022-9P

43-047-55510		1022-9P1BS				0809 0434	
43-047-55511	NBU	1022-9J4CS				0831 1659	
43-047-55512	NBU	1022-9I4DS				0816 0248	
43-047-55514	NBU	1022-9I4BS				0823 0517	
PAD NBU 1022 -43-047-55513		1022-9L2DS				1360 0412	
43-047-55515	NBU	1022-9L2AS		 		 1369 0452	
43-047-55516	NBU	1022-9K3BS		 	 	 1397 1598	
43-047-55517	NBU	1022-9K1BS				1424 1999	
43-047-55518	NBU	1022-9J3BS				1406 2572	

RECEIVED: January 12, 2016

API Well Number: 43047555200000

Page 2

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

PAD NBU 1022-99K

43-047-55519 NBU 1022-9F4CS BHL Sec 09 T10S R22E 2096 FSL 1415 FWL Sec 09 T10S R22E 2533 FNL 2033 FWL 43-047-55520 NBU 1022-9E4CS BHL Sec 09 T10S R22E 2080 FSL 1378 FWL Sec 09 T10S R22E 2555 FNL 0672 FWL 8-047-55521 NBU 1022-9E4BS Sec 09 T10S R22E 2084 FSL 1387 FWL BHL Sec 09 T10S R22E 2258 FNL 0693 FWL

This office has no objection to permitting the wells at this time.

Michael Coulthard

Digitally signed by Michael Coulthard DN: cn=Michael Coulthard, o=Bureau of Land Management, ou=Division of Minerals, email=mcoultha@blm.gov, c=US Date: 2016.01.12 14:00:03 -07'00'

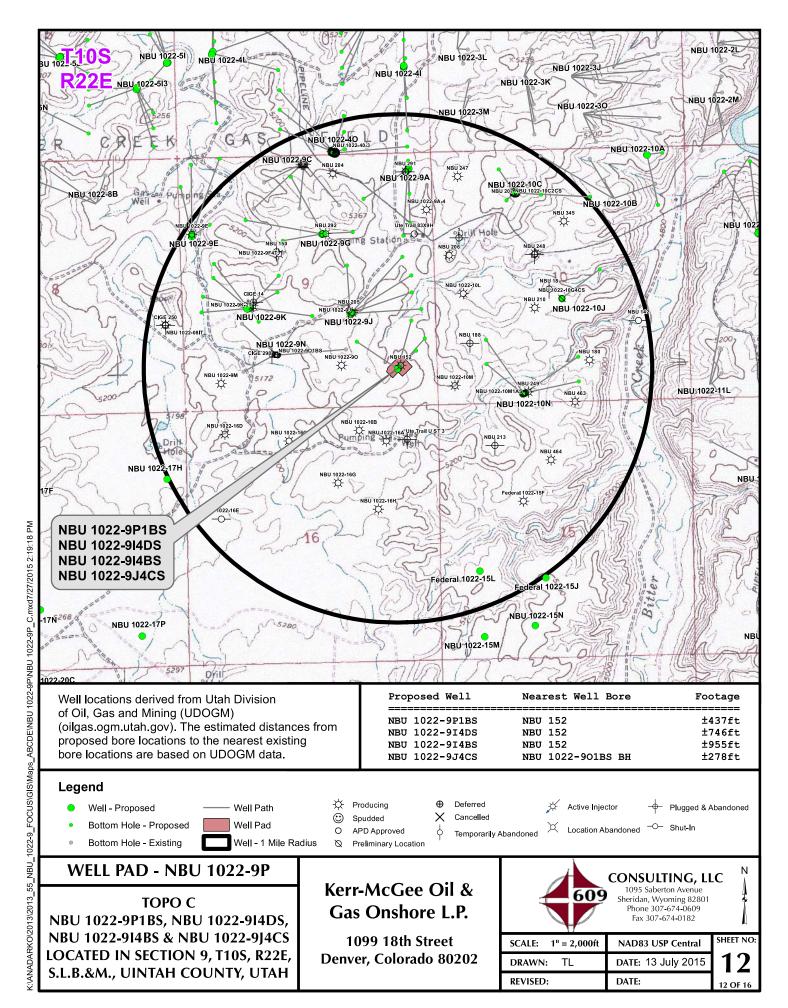
bcc: File - Natural Buttes Unit

Division of Oil Gas and Mining

UT920 - Reading File

Agr. Sec. Chron

MCoulthard:mc:1-12-16



API Well Number: 43047F56j5c2t00f2AHO-UTM (feet), NAD27, Zone 12N

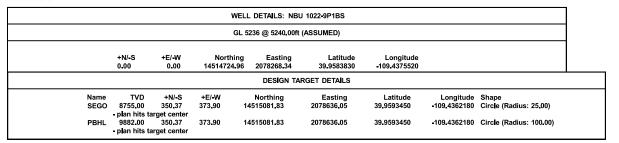
Scientific Drilling

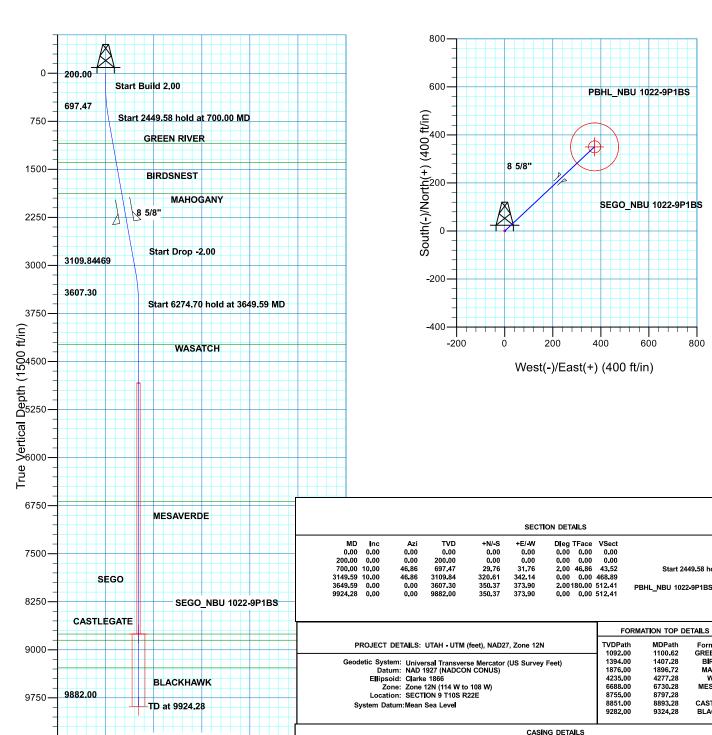
Site: NBU 1022-9P PAD Well: NBU 1022-9P1BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY







PBHL_NBU 1022-9P1BS

1500

Vertical Section at 46.86° (1500 ft/in)

2250

3000

3750

750

10500

-750

Name Size 8 5/8" 8.625

TVD 2326.00

2353.66

600

800

Start 2449.58 hold at 700.00 MD

Formation GREEN RIVER BIRDSNEST

MAHOGANY WASATCH

MESAVERDE SEGO CASTLEGATE

Plan: PLAN #1 PRELIMINARY (NBU 1022-9P1BS/OH)

MDPath

1100.62

1407-28

1896.72 4277.28 6730.28

8797.28

8893,28

9324.28

API Well Number: 43047/5/5/5/5/2001/AHO-UTM (feet), NAD27, Zone 12N

Scientific Drilling

-750

750

1500

Vertical Section at 305.32° (1500 ft/in)

2250

3000

3750

Site: NBU 1022-9P PAD Well: NBU 1022-9J4CS

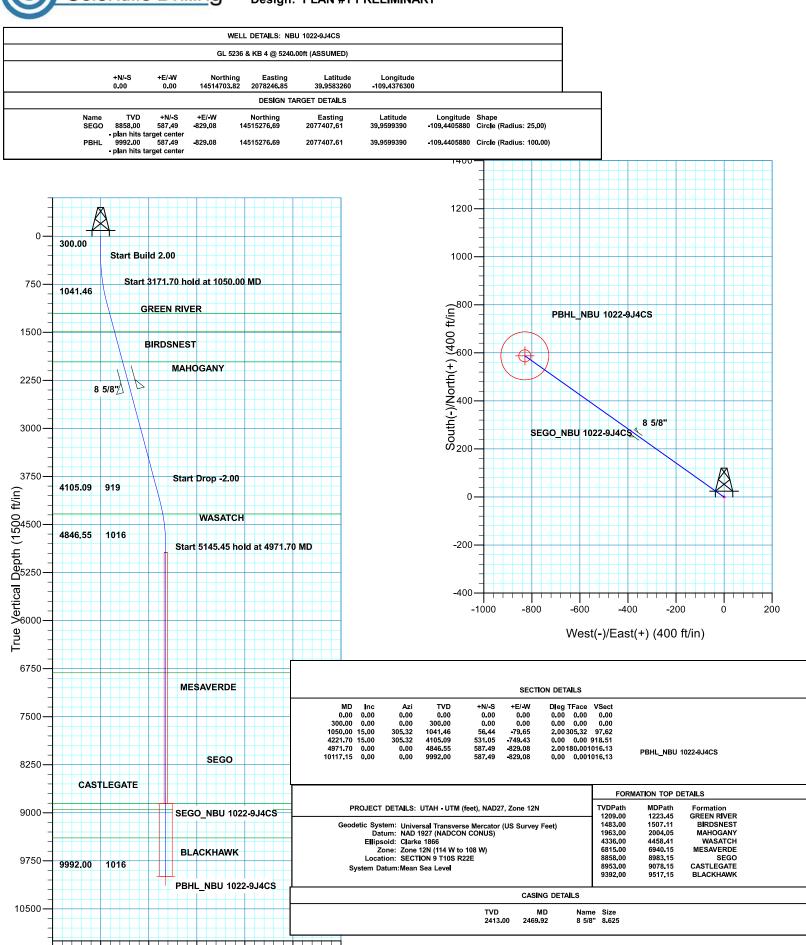
Wellbore: OH

Design: PLAN #1 PRELIMINARY



Plan: PLAN #1 PRELIMINARY (NBU 1022-9J4CS/OH)

RECRECEIVED: December 21:2045 2015



API Well Number: 43047/5/5/5/5/2001/AHO-UTM (feet), NAD27, Zone 12N

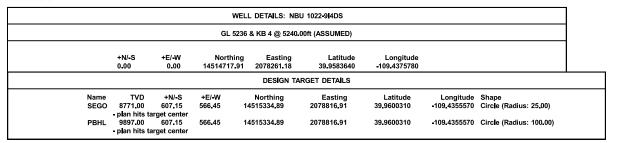
Vertical Section at 43.01° (1500 ft/in)

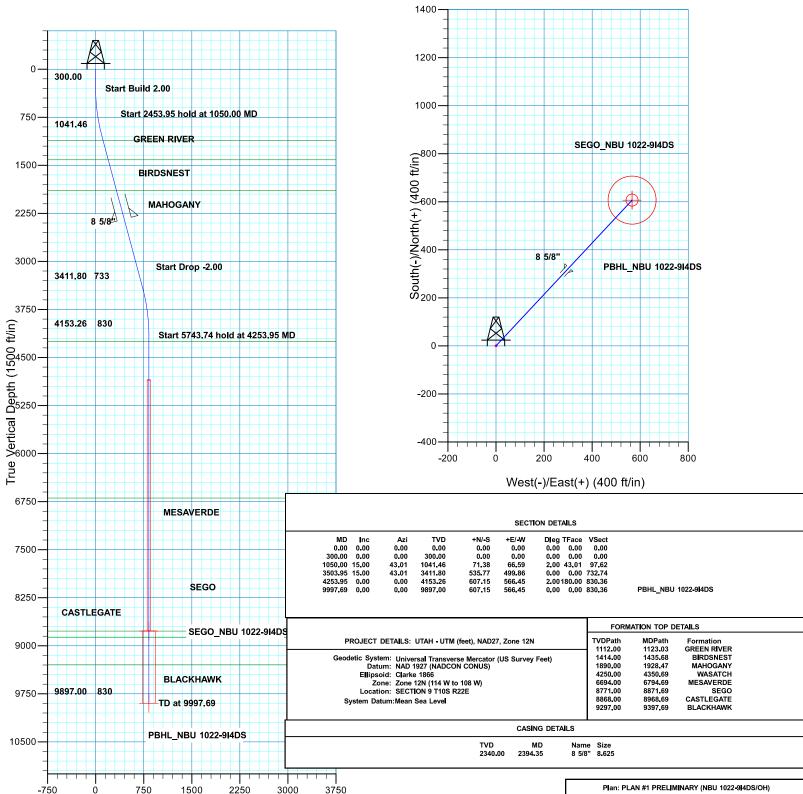
Scientific Drilling

Site: NBU 1022-9P PAD Well: NBU 1022-9I4DS

Wellbore: OH







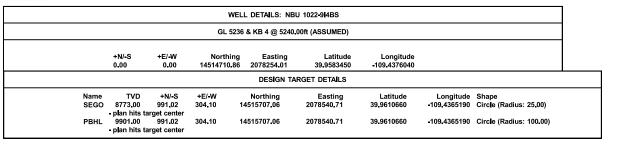
Scientific Drilling

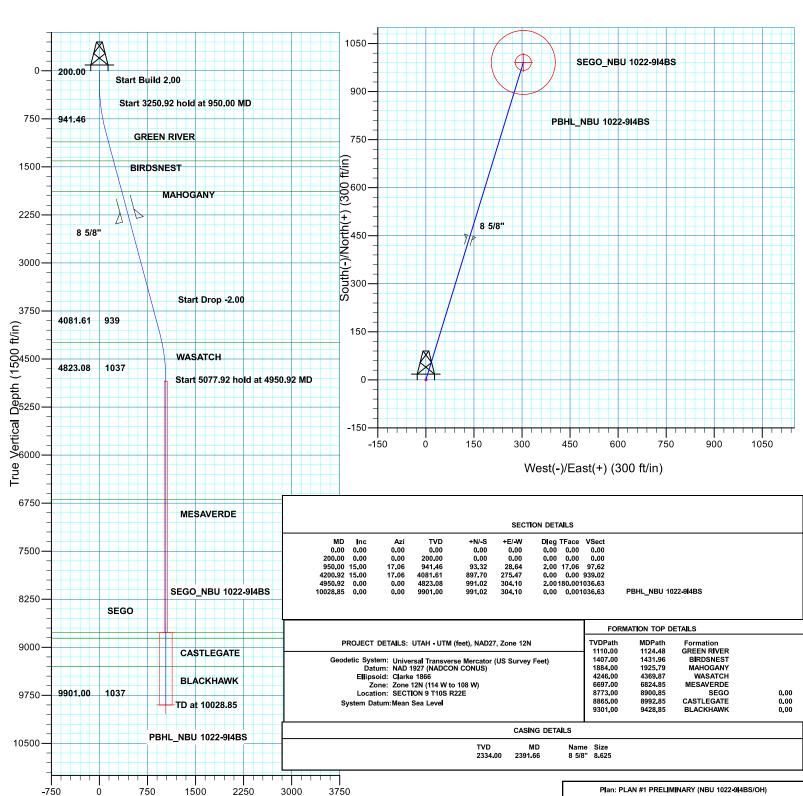
Vertical Section at 17.06° (1500 ft/in)

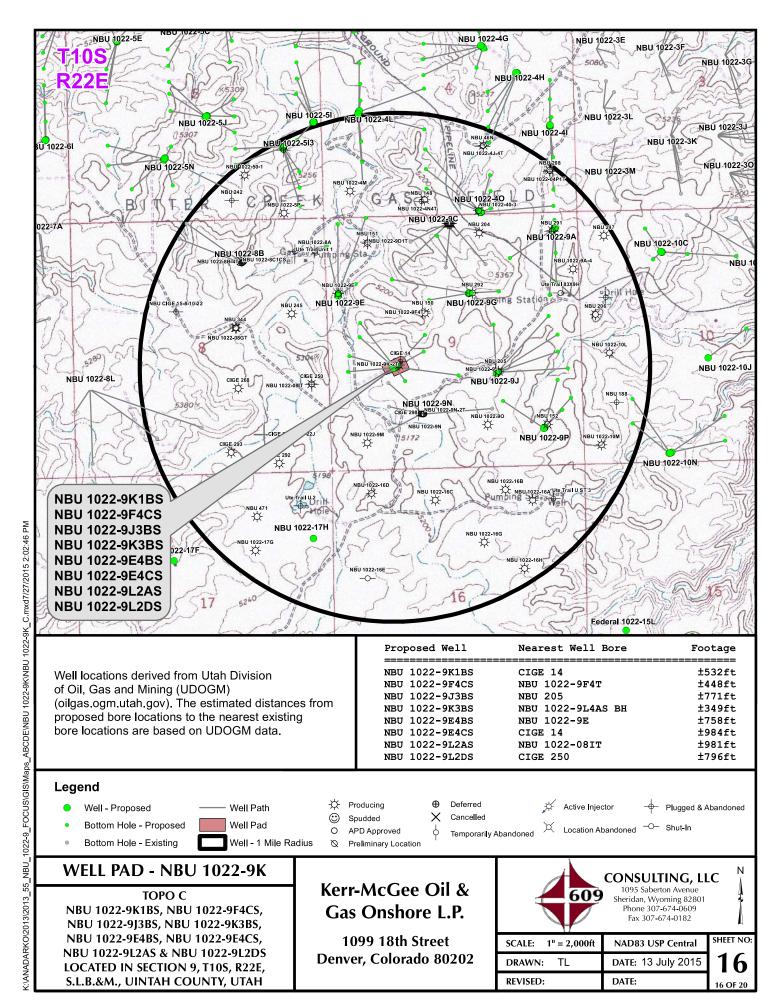
Site: NBU 1022-9P PAD Well: NBU 1022-9I4BS

Wellbore: OH







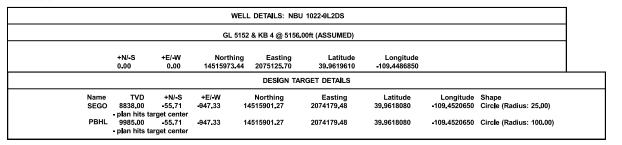


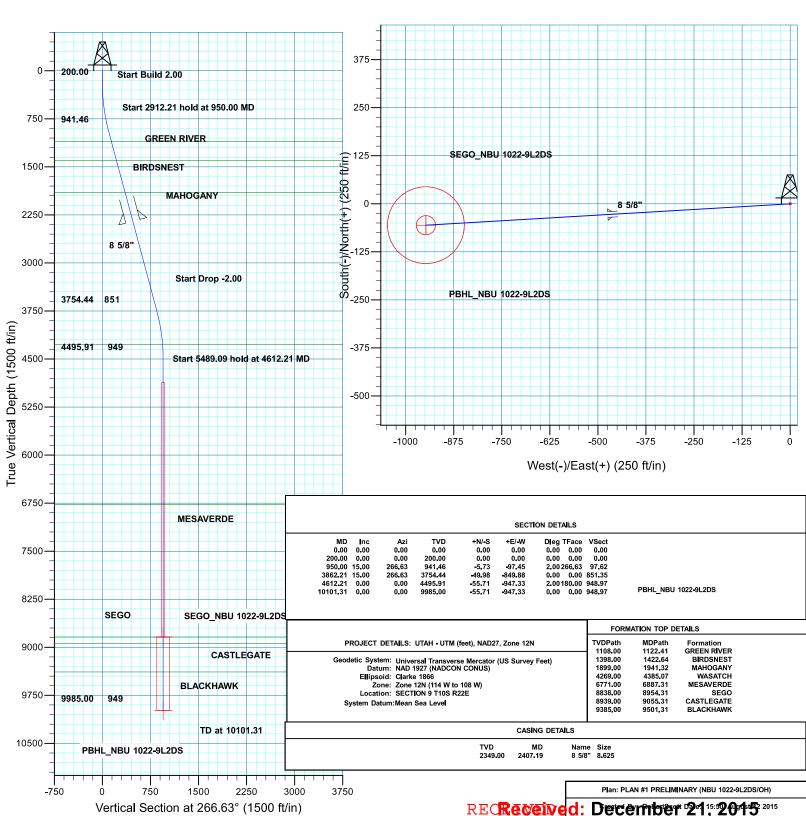
Scientific Drilling

Site: NBU 1022-9K PAD Well: NBU 1022-9L2DS

Wellbore: OH







Scientific Drilling

Vertical Section at 286.23° (1500 ft/in)

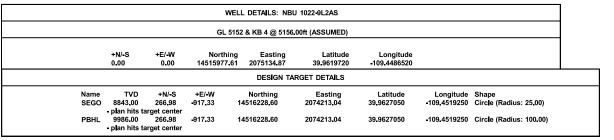
Site: NBU 1022-9K PAD Well: NBU 1022-9L2AS

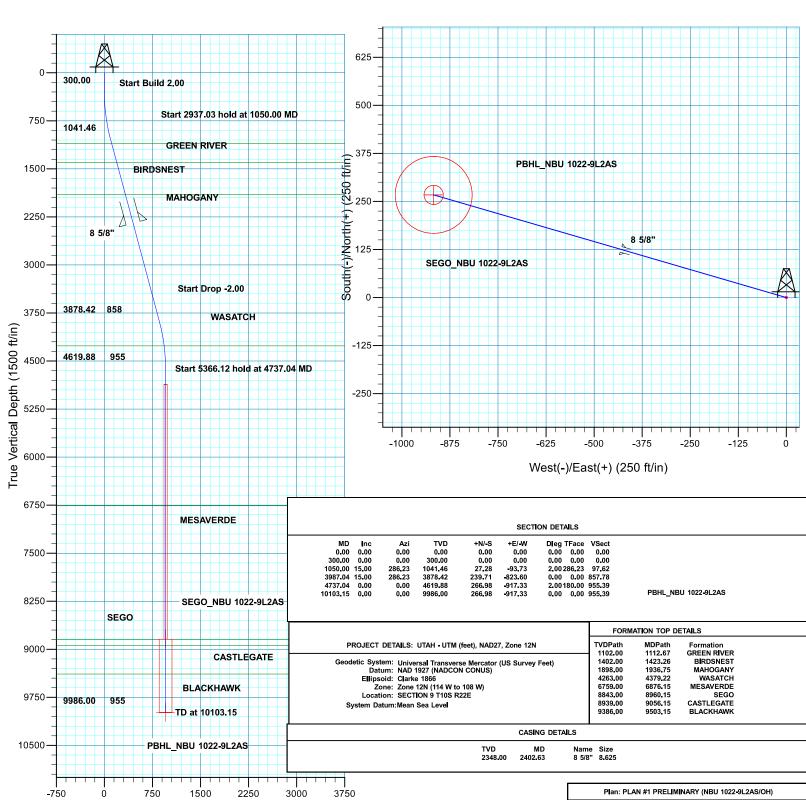
Wellbore: OH

Design: PLAN #1 PRELIMINARY

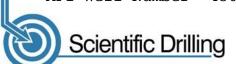


RECRECEIVED: December 21:52045 2015





API Well Number: 43047F56j5c2001CAHO-UTM (feet), NAD27, Zone 12N



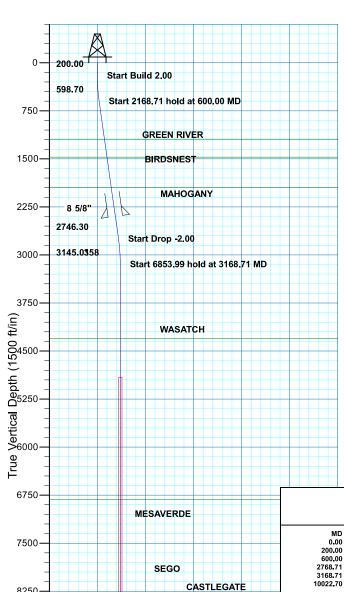
Site: NBU 1022-9K PAD Well: NBU 1022-9K3BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY



WELL DETAILS: NBU 1022-9K3BS								
GL 5152 & KB 4 @ 5156,00ft (ASSUMED)								
	+N/-S 0.00	+E/-W 0.00	Northi 14515990.		Latitude 39.9620050	Longitude -109.4485540		
				DESIGN TA	rget details			
Nam SEG	8857.00	+N/-S -295.01 target center	+E/-W 202.08	Northing 14515698,65	Easting 2075369.31	Latitude 39.9611950	Longitude 109 4478330	Shape Circle (Radius: 25,00)
РВН	9999.00	295.01	202.08	14515698.65	2075369.31	39.9611950	109.4478330	Circle (Radius: 100.00)



SEGO_NBU 1022-9K3B

3750

BLACKHAWK

1500

Vertical Section at 145.59° (1500 ft/in)

TD at 10022.70

PBHL_NBU 1022-9K3BS

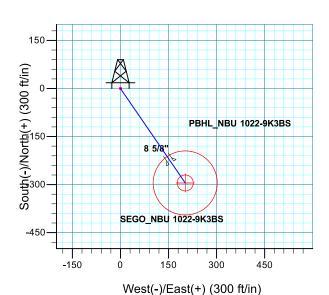
8250

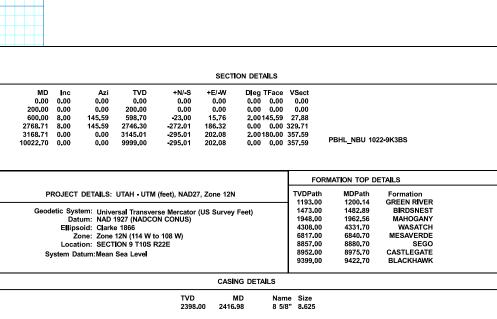
9000

9750

10500

9999.0058





Plan: PLAN #1 PRELIMINARY (NBU 1022-9K3BS/OH)

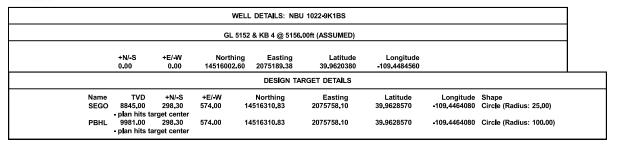
Vertical Section at 62.54° (1500 ft/in)

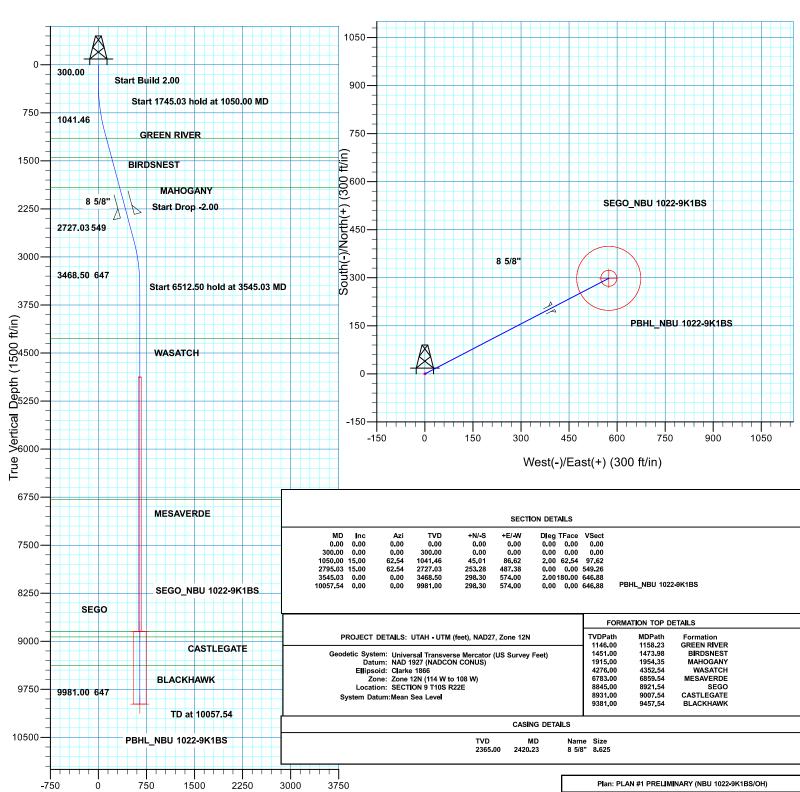
Scientific Drilling

Site: NBU 1022-9K PAD Well: NBU 1022-9K1BS

Wellbore: OH







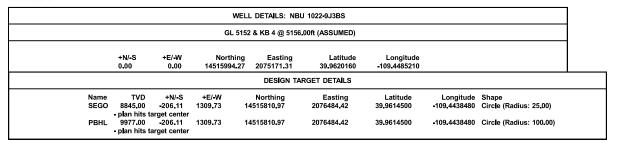
API Well Number: 43047/Froject 001040-0-UTM (feet), NAD27, Zone 12N

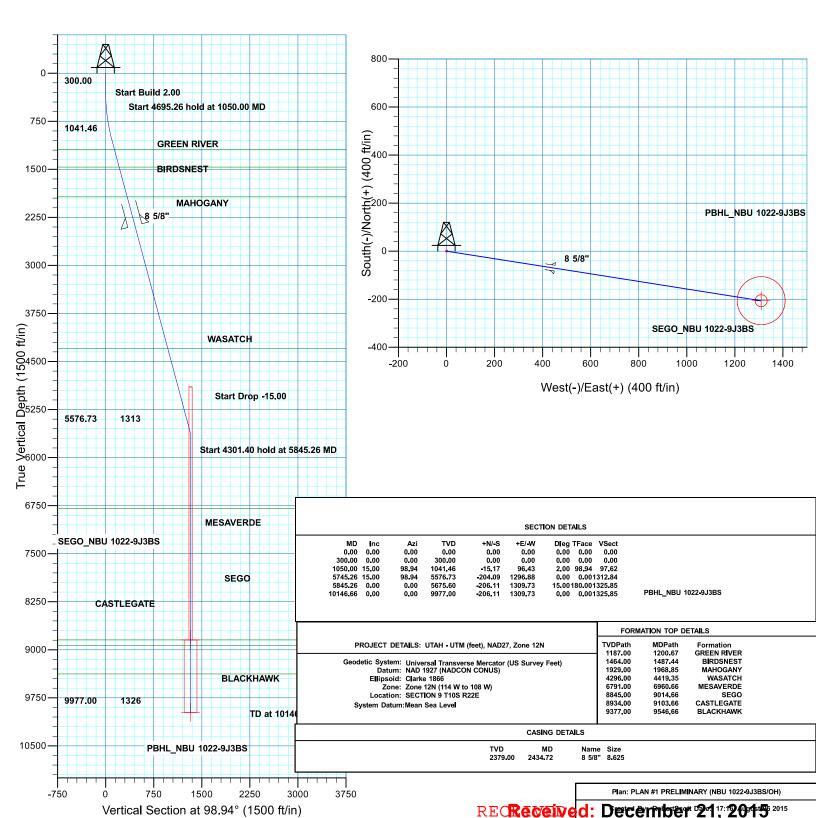
Scientific Drilling

Site: NBU 1022-9K PAD Well: NBU 1022-9J3BS

Wellbore: OH





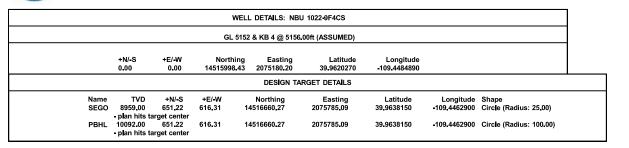


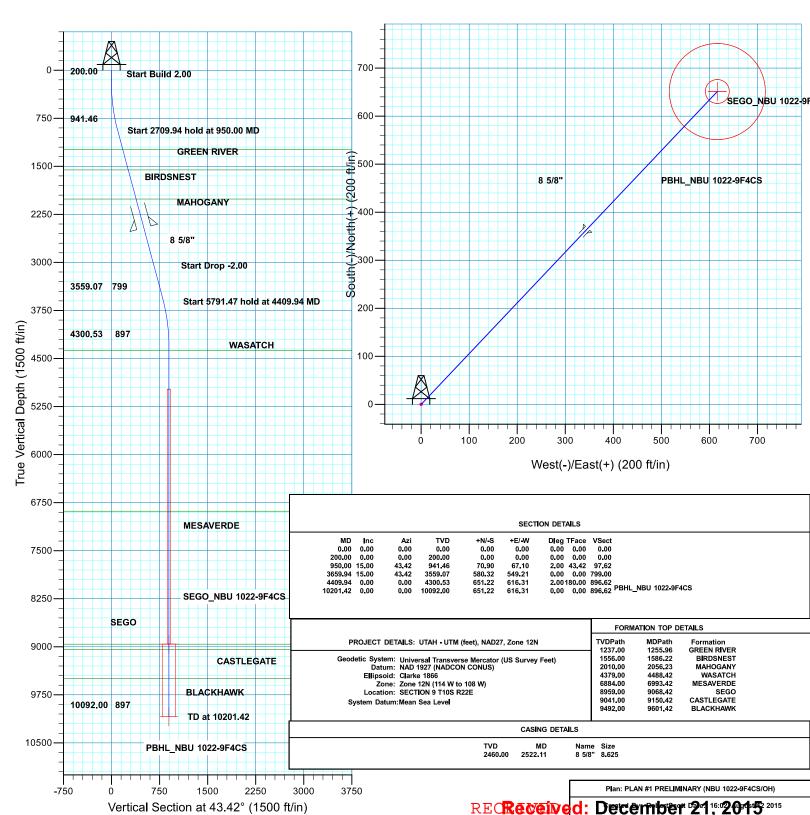
API Well Number: 43047755562001240-UTM (feet), NAD27, Zone 12N

Scientific Drilling

Site: NBU 1022-9K PAD Well: NBU 1022-9F4CS Wellbore: OH







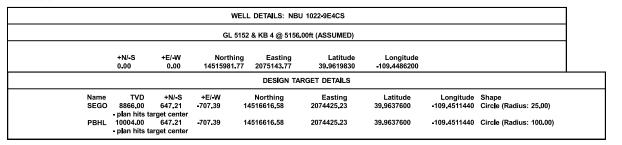
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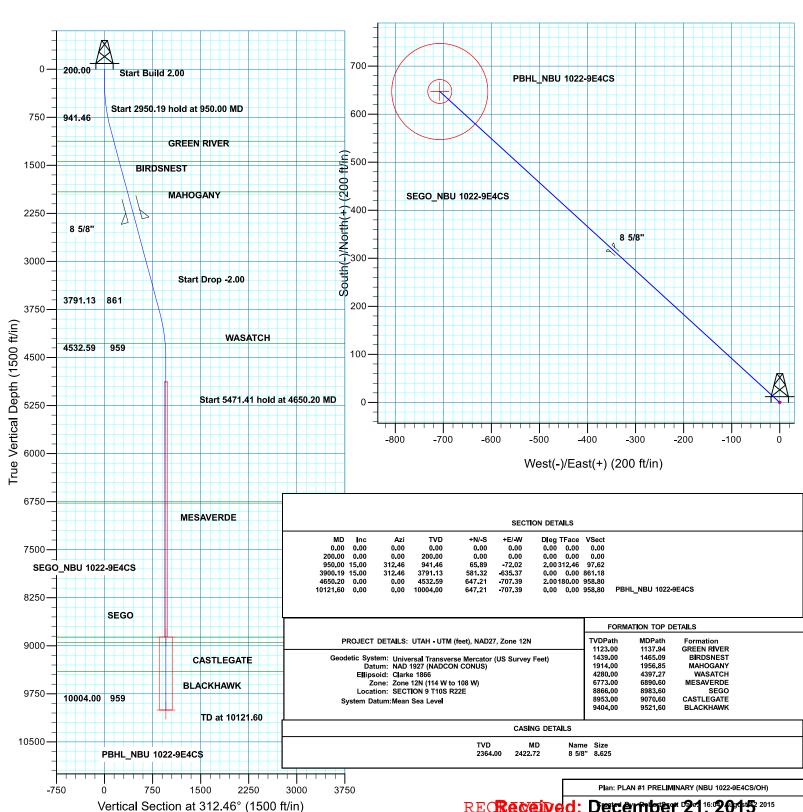
Scientific Drilling

Site: NBU 1022-9K PAD Well: NBU 1022-9E4CS

Wellbore: OH







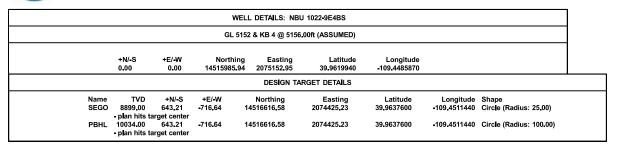
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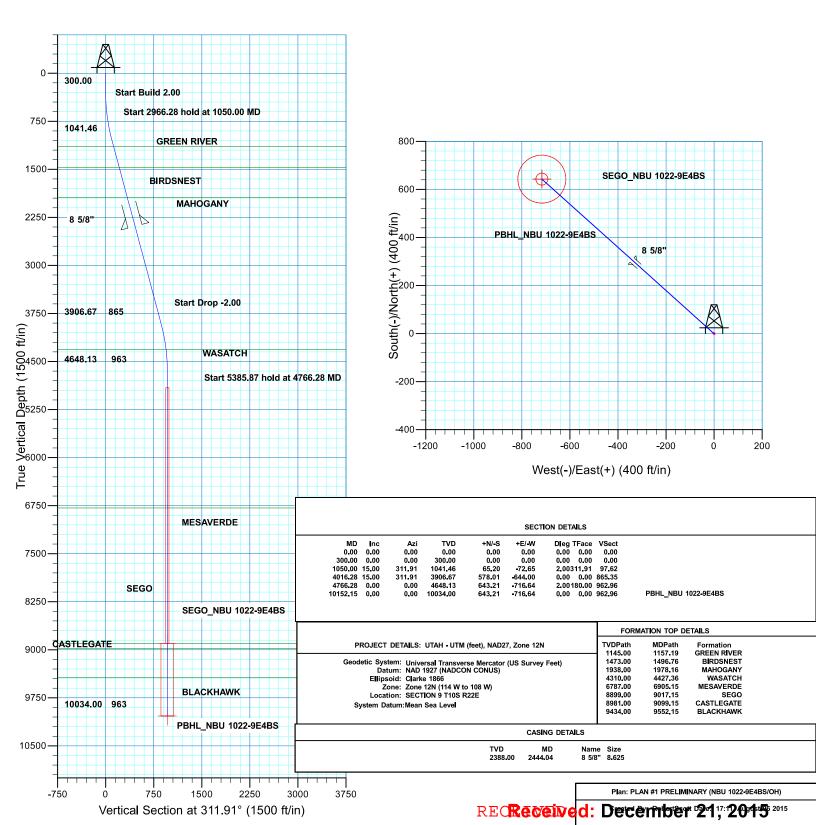
Scientific Drilling

Site: NBU 1022-9K PAD Well: NBU 1022-9E4BS

Wellbore: OH







API Well Number: 43047555200000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

WELL NAME: NBU 1022-9E4CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6828

CONTACT: Joel Malefyt

PROPOSED LOCATION: NESW 09 100S 220E Permit Tech Review:

> SURFACE: 2080 FSL 1378 FWL Engineering Review:

> **BOTTOM: 2555 FNL 0672 FWL** Geology Review:

COUNTY: UINTAH

LATITUDE: 39.96183 LONGITUDE: -109.44921 UTM SURF EASTINGS: 632452.00 NORTHINGS: 4424672.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE LEASE NUMBER: UTU 01196-B

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Drilling Unit Oil Shale 190-13

Board Cause No: Cause 173-14 Water Permit: 43-8496

Effective Date: 12/2/1999 **RDCC Review:**

Siting: Suspends General Siting Fee Surface Agreement

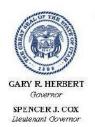
✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1022-9E4CS
API Well Number: 43047555200000
Lease Number: UTU 01196-B
Surface Owner: FEDERAL
Approval Date: 1/13/2016

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Alexis Huefner at 801-538-5302

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007) SEP 08 2015

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT BLM VERNAL UTAH 5. Lease Serial No.

Expires July 31, 20

		01001190B	•	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Trib		
1a. Type of Work: DRILL REENTER	7. If Unit or CA Agreement, Name and No. 891008900A (UTU 3047A) 8. Lease Name and Well No.			
1b. Type of Well: Oil Well	NBU 1022-9E4CS			
2. Name of Operator Contact: KERR MCGEE OIL & GAS ONSHOPE alt; joel.mail	JOEL MALEFYT efyt@anaderko.com	9. API Well No. 43-047-554	520	
3a. Address 1099 18TH ST, SUITE 1800 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 720-929-6828 Fx: 720-929-7828	10. Field and Pool, or Exploratory NATURAL BUTTES		
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area	
At surface NESW 2080FSL 1378FWL At proposed prod. zone SENW 2555FNL 672FWL	. 39.961948 N Lat, 109.449303 W Lon 39.963726 N Lat, 109.451827 W Lon	Sec 9 T10S R22E M SME: BLM	er SLB	
14. Distance in miles and direction from nearest town or post 48.4 MILES SOUTH OF VERNAL, UT	office*	12. County or Parish UINTAH	13. State UT	
15. Distance from proposed location to nearest property or	17. Spacing Unit dedicated to this well			
lease line, ft. (Also to nearest drig. unit line, if any)	320.00			
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on file		
448	10201 MD 10092 TVD	WYB000291 23. Estimated duration 60-90 DAYS		
21. Elevations (Show whether DF, KB, RT, GL, etc. 5152 GL	22. Approximate date work will start 03/01/2016			
	24. Attachments			
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to t	his form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off 	Item 20 above). 5. Operator certification	ns unless covered by an existin		
25. Signature (Electronic Submission)	Name (Printed/Typed) JOEL MALEFYT Ph: 720-929-6828		Date 08/26/2015	
Title REGULATORY ANALYST				
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczi	(a	DEC 2 8 2015	
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE			
		111		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

JAN 11 2016

Additional Operator Remarks (see next page)

Electronic Subm
For KERF
Committed to AFMSS

Electronic Submission #314235 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by STEVE HIRSCHI on 09/15/2015 (15STH0203AE)

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL ATTACHED

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

NOS 6/18/15

15TKRO117 AE



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:

Kerr McGee Oil & Gas Onshore

Location:

NESW, Sec. 9, T10S, R22E

Well No: API No:

NBU 1022-9E4CS

Lease No:

UTU-01196B

43-047-55520

Agreement:

891008900A

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)

Forty-Eight (48) hours prior to construction of location and access roads.

Location Completion (Notify Environmental Scientist)

Prior to moving on the drilling rig.

Spud Notice (Notify Petroleum Engineer) Twenty-Four (24) hours prior to spudding the well.

Casing String & Cementing (Notify Supv. Petroleum Tech.) Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm ut vn opreport@blm.gov

BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)

Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice (Notify Petroleum Engineer) Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: NBU 1022-9E4CS 12/21/2015

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.

Site Specific COAs:

- Geology, Minerals, and Paleontology
 - o If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
 - If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontological material before construction can continue.
 - A BLM-permitted paleontologist will oversee monitoring of construction activities as indicated in SWCA Environmental Consultants' report number UT15–14314–21. Note that this is in addition to those already required in the Greater Natural Buttes FEIS/ROD (UT-080-07-807).
- Threatened, Endangered, Candidate and Proposed Plant Species: Uinta Basin hookless cactus (Sclerocactus wetlandicus)
 - Site inventory surveys will be valid for 4 years from the survey date. If more than 4 years pass between the original survey date and construction, a new clearance survey/site inventory will be required. If construction is to occur within the 4 year window, and at least 1 year after the initial survey date, an additional spot check survey will be required following the methodology established in the 2010 Memorandum of Understanding (MOU) between USFWS and BLM regarding Sclerocactus survey data use timing restrictions. Review of spot checks may result in requirements for additional pre-construction plant surveys or other requirements as directed by USFWS and the BLM Authorized Officer (AO).
 - The applicant will perform ground disturbing activities outside of the flowering period for Sclerocactus wetlandicus (April 1 through May 30).

Page 3 of 7 Well: NBU 1022-9E4CS 12/21/2015

- Only water and methods approved by the BLM (no chemicals, reclaimed production water or oil field brine) will be used for dust abatement measures within Sclerocactus habitat.
- Dust abatement will be employed in suitable Sclerocactus habitat over the life of the project (during ground disturbing activities, and/or periods of increased travel frequency and amount of traffic to the Project Area; does not apply to general maintenance activities) during the time of the year when Sclerocactus species are most vulnerable to dust-related impacts (March through August).
- Noxious weeds within Sclerocactus habitat may be controlled with herbicides, in accordance with the BLM Herbicide PEIS (http://www.blm.gov/wo/st/en/prog/more/veg_eis.html).
 Guidelines and the BLM's Standard Operating Procedures for Threatened and Endangered Plant Species (Table 1).
- Application for a Pesticide Use Permit will include provisions for mechanical removal, as opposed to chemical removal, for Utah Class A, B, and C noxious weeds within 50 feet of individual/populations of Sclerocactus.
- Erosion control measures (e.g., silt fencing) will be implemented to minimize sedimentation to Sclerocactus plants and populations located down slope of proposed surface disturbance activities, and should only be implemented within the area proposed for disturbance.
- All disturbed areas will be reclaimed with plant species native to Utah, or seed mixtures
 approved by the BLM and our office, which may include the use of sterile, non-native, noninvasive, annuals to help secure topsoil and encourage native perennials to establish.
- Discovery Stipulation: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Uinta Basin hookless cactus is anticipated as a result of project activities.

Green River District Reclamation Guidelines

 The Operator will comply with the requirements of Appendix B: Green River District Reclamation Guidelines (p. 59), formalized by Green River District Instructional Memo UTG000-2014-004 on May 21, 2014.

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DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 400' up and into the surface casing.
- For the drilling of the surface hole section, operator is required to install an bowl diverter system or
 rotating head which is connected and discharges to an panic or choke blooie line. The surface hole
 section of the subject well is deeper than 2,000 ft.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 75 feet.
- All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- <u>Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in</u> advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

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- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

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and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

 All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
 Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
 future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
 BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
 hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
 be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
 Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
 order that a representative may witness plugging operations. If a well is suspended or abandoned,
 all pits must be fenced immediately until they are backfilled. The "Subsequent Report of
 Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of
 the well bore, showing location of plugs, amount of cement in each, and amount of casing left in
 hole, and the current status of the surface restoration.

Sundry Number: 77168 API Well Number: 43047555200000

	FORM 9															
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01196-B														
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:															
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES													
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 1022-9E4CS															
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047555200000													
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 7 3779 720 929-	9. FIELD and POOL or WILDCAT:													
4. LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: UINTAH													
2080 FSL 1378 FWL QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NESW Section: (HIP, RANGE, MERIDIAN: 09 Township: 10.0S Range: 22.0E Merio	dian: S	STATE: UTAH													
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																
TYPE OF SUBMISSION		TYPE OF ACTION														
	ACIDIZE	ALTER CASING	CASING REPAIR													
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME													
1/4/2017	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE													
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION													
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK													
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION													
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON													
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL													
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION													
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:													
42 DESCRIPE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a		Jantha valumas eta													
Kerr-McGee Oil & G an extension to this	Gas Onshore, L.P. (Kerr-McGe APD for the maximum time with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the													
		Date:														
		By: Bacylll														
NAME (PLEASE PRINT)	PHONE NUMB															
Candice Barber	435 781-9749	HSE Representative														
SIGNATURE N/A		DATE 1/4/2017														

Sundry Number: 77168 API Well Number: 43047555200000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047555200000

API: 43047555200000 Well Name: NBU 1022-9E4CS

Location: 2080 FSL 1378 FWL QTR NESW SEC 09 TWNP 100S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/13/2016

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? 🔘 Yes 📵 No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? (Yes (No
• Has the approved source of water for drilling changed? Yes No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Candice Barber Date: 1/4/2017

Sig

Title: HSE Representative Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.